





Db 4613 AAAAAAAAAAAAAAAAAAAAAA 4636

RESULT 5  
US-10-184-634-75

; Sequence 75, Application US/10184634  
; Publication No. US20030068684A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Chen, Jian  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Smith, Victoria  
; APPLICANT: Matanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3430R1C217  
; CURRENT APPLICATION NUMBER: US/10/184,634  
; CURRENT FILING DATE: 2002-06-28  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 612  
; SEQ ID NO 75  
; LENGTH: 4640  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-184-634-75

Query Match 37.6%; Score 249.5; DB 14; Length 4640;  
Best Local Similarity 51.4%; Pred. No. 7.8e-08;  
Matches 74; Conservative 7; Mismatches 56; Indels 7; Gaps 2;

QY 5 TAAVAPISVPAPVAAAATAA---ITA---TAATTTTWWAAAPVAVAAAAAPAAAAAP 57  
DB 4493 TAAATGAGCTTAAATAAAGCATATGTTTCATGTTTAAATAAAAAAAAAAAAAA 4552  
QY 58 SPATTAATTAASVPAAGQIPAAASVSAASAAVAPSAAPVAPVAPVAPV 117  
DB 4553 AA 4612  
QY 118 PAPAQAQAPAPQAPTSAPVA 141  
DB 4613 AAAAAAAAAAAAAAAAAAAAAA 4636

RESULT 6  
US-10-184-644-169

; Sequence 169, Application US/10184644  
; Publication No. US20030044930A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Chen, Jian  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Smith, Victoria  
; APPLICANT: Matanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3430R1C227  
; CURRENT APPLICATION NUMBER: US/10/184,644  
; CURRENT FILING DATE: 2002-06-28  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 612

; SEQ ID NO 169  
; LENGTH: 2846  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-184-644-169

Query Match 37.6%; Score 249; DB 14; Length 2846;  
Best Local Similarity 50.4%; Pred. No. 5.4e-08;  
Matches 68; Conservative 8; Mismatches 59; Indels 0; Gaps 0;

QY 5 TAAVAPISVPAPVAAAATAAATTTTAAATTTTWWAAAPVAVAAAAAPSPATAA 64  
DB 2711 TACAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2770  
QY 65 TAAVSPAAAGQIPAAASVSAASAAVAPSAAPVAPVAPVAPVAPVAPVAPVAPVAPV 124  
DB 2771 AA 2830  
QY 125 ASAPAQOTAPTSAPA 139  
DB 2831 AAAAAAAAAAAAAA 2845

RESULT 7  
US-10-184-634-169

; Sequence 169, Application US/10184634  
; Publication No. US20030068684A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Chen, Jian  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Smith, Victoria  
; APPLICANT: Matanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3430R1C217  
; CURRENT APPLICATION NUMBER: US/10/184,634  
; CURRENT FILING DATE: 2002-06-28  
; Prior Application removed - See File Wrapper or Palm  
; NUMBER OF SEQ ID NOS: 612  
; SEQ ID NO 169  
; LENGTH: 2846  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-184-634-169

Query Match 37.6%; Score 249; DB 14; Length 2846;  
Best Local Similarity 50.4%; Pred. No. 5.4e-08;  
Matches 68; Conservative 8; Mismatches 59; Indels 0; Gaps 0;

QY 5 TAAVAPISVPAPVAAAATAAATTTTAAATTTTWWAAAPVAVAAAAAPSPATAA 64  
DB 2711 TACAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2770  
QY 65 TAAVSPAAAGQIPAAASVSAASAAVAPSAAPVAPVAPVAPVAPVAPVAPVAPVAPV 124  
DB 2771 AA 2830  
QY 125 ASAPAQOTAPTSAPA 139  
DB 2831 AAAAAAAAAAAAAA 2845

RESULT 8  
US-10-063-685-37

; Sequence 37, Application US/10063685  
; Publication No. US20030180909A1

```

RESULT 9
US-10-123-155-99
/ Sequence 99, Application US/10123155
/ Publication No. US20030068794A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Beresini, Maureen
/ APPLICANT: DeForge, Laura
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Gueney, Austin L.
/ APPLICANT: Sherwood, Steven
/ APPLICANT: Smith, Victoria
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K
/ APPLICANT: Wood, William
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ TITLE OF INVENTION: ACIDS ENCODING THE SAME
/ FILE REFERENCE: P3330R1C30
/ CURRENT APPLICATION NUMBER: US/10/123,155
/ CURRENT FILING DATE: 2002-04-15
/ Prior Application removed - See Palm or File Wrapper
/ NUMBER OF SEQ ID NOS: 550
/ SEQ ID NO 99
/ LENGTH: 1904
/ TYPE: DNA
/ ORGANISM: Homo Sapien

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	Query Match	37.3%	Score 247;	DB 14;	Length 1904;
	Best Local Similarity	53.5%	Pred. No. 5e-08:		
Matches	68; Conservative	7;	Mismatches 52;	Indels 0;	Gaps 0.
QY	15 APVAAAATTTAAATTATTAATITTTTAAAAFPVVAAAAAAPSPTAAATAAVSPAAA				74
Db	1770 AACAAATATTAAGTGAAATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA				1829
QY	75 GGIPLPAASVASAAVAAPFAAAAAAQQVAPAAPFVPAPALIVPVAPDAAIQASAPAQCTGAP	:   :			134
Dd	1830 AA				1869
QY	135 TSPAIVA 141	:       :	:	:	
Dd	1890 AAAAAAA 1896				

```
Sequence 99, Application US/10140472
Publication No. US20030138888A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Tumanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C168
CURRENT APPLICATION NUMBER: US/10/140,472
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 99
LENGTH: 1904
TYPE: DNA
ORGANISM: Homo Sapien
US-10-140-472-99

Query Match      37.3%; Score 247; DB 14; Length 1904;
Best Local Similarity 53.5%; Pred. No. 5e-08;
Matches 68; Conservative 7; Mismatches 52; Indels 0; Gaps 0;

QY 15 APVAAATTAATATATATTTTAAAFVAAVAAAAPAAAAAPSPATTAATTAASVAAA 74
DB 1770 AACAAATTAAGTGAATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1829

QY 75 GQIPAAASVAAAVAPSAASAAAVQVAPAPVAPALVPVAPAAQAASAPAQOTAP 134
DB 1830 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1889

QY 135 TSAPAVA 141
DB 1890 AAAAAAA 1896

RESULT 12
US-10-141-761-99
Sequence 99, Application US/10141761
Publication No. US2003014832A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Tumanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
```

```
FILE REFERENCE: P330R1C198
CURRENT APPLICATION NUMBER: US/10/141,761
CURRENT FILING DATE: 2002-05-08
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 99
LENGTH: 1904
TYPE: DNA
ORGANISM: Homo Sapien
US-10-141-761-99

Query Match      37.3%; Score 247; DB 14; Length 1904;
Best Local Similarity 53.5%; Pred. No. 5e-08;
Matches 68; Conservative 7; Mismatches 52; Indels 0; Gaps 0;

QY 15 APVAAATTAATATATATTTTAAAFVAAVAAAAPAAAAAPSPATTAATTAASVAAA 74
DB 1770 AACAAATTAAGTGAATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1829

QY 75 GQIPAAASVAAAVAPSAASAAAVQVAPAPVAPALVPVAPAAQAASAPAQOTAP 134
DB 1830 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1889

QY 135 TSAPAVA 141
DB 1890 AAAAAAA 1896

RESULT 13
US-10-142-885-99
Sequence 99, Application US/10142885
Publication No. US20030157604A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Tumanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
APPLICANT: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C248
CURRENT APPLICATION NUMBER: US/10/142,885
CURRENT FILING DATE: 2002-05-10
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 99
LENGTH: 1904
TYPE: DNA
ORGANISM: Homo Sapien
US-10-142-885-99

Query Match      37.3%; Score 247; DB 14; Length 1904;
Best Local Similarity 53.5%; Pred. No. 5e-08;
Matches 68; Conservative 7; Mismatches 52; Indels 0; Gaps 0;

QY 15 APVAAATTAATATATATTTTAAAFVAAVAAAAPAAAAAPSPATTAATTAASVAAA 74
DB 1770 AACAAATTAAGTGAATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1829

QY 75 GQIPAAASVAAAVAPSAASAAAVQVAPAPVAPALVPVAPAAQAASAPAQOTAP 134
```





```

CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 210121.422C1
FILING DATE: 18-DEC-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 442 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-834-306-52

Query Match
Best Local Similarity 30.2%; Score 200.5; DB 3; Length 442;
Matches 65; Conservative 6; Mismatches 64; Indels 7; Gaps 5;

2 SNKTAAVAPISVPAPVAAATAATATATTITTTTVAAPVAVAAAAAPAAAAASPAT 61
298 SGKSKAKA--AAPAK-AAAAAPAKAAAPPAKTAAPAKAAAP--AKAAAPPAKAAAPPAKT 352
QY 62 AAATA-AAVSPAAGQIPAAASVSAASAAVAPSAASAAAVQVAPAPAPVAPALVVPAP 120
Db 353 AAPPAKTAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAP--AKAAAP 411
QY 121 AAAQASAPQOTAPTSAPVAP 142
Db 412 PAKAAAPPAKAAAPPAKAAAP 433

RESULT 3
US-08-993-674A-52
Sequence 52, Application US/08993674A
Patent No. 6228372
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Smith, John M.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
```

```

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993.674A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 442 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-993-674A-52

Query Match
Best Local Similarity 30.2%; Score 200.5; DB 3; Length 442;
Matches 65; Conservative 6; Mismatches 64; Indels 7; Gaps 5;

2 SNKTAAVAPISVPAPVAAATAATATATTITTTTVAAPVAVAAAAAPAAAAASPAT 61
298 SGKSKAKA--AAPAK-AAAAAPAKAAAPPAKTAAPAKAAAP--AKAAAPPAKAAAPPAKT 352
QY 62 AAATA-AAVSPAAGQIPAAASVSAASAAVAPSAASAAAVQVAPAPAPVAPALVVPAP 120
Db 353 AAPPAKTAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAP--AKAAAP 411
QY 121 AAAQASAPQOTAPTSAPVAP 142
Db 412 PAKAAAPPAKAAAPPAKAAAP 433

RESULT 4
US-09-256-976-52
Sequence 52, Application US/09256976
Patent No. 6419933
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Smith, John M.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION
FILE REFERENCE: 210121.422C3
CURRENT APPLICATION NUMBER: US/09/256.976
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 52
LENGTH: 442
TYPE: PRT
ORGANISM: Trypanosoma cruzi
US-09-256-976-52

Query Match
Best Local Similarity 30.2%; Score 200.5; DB 4; Length 442;
Matches 65; Conservative 6; Mismatches 64; Indels 7; Gaps 5;

2 SNKTAAVAPISVPAPVAAATAATATATTITTTTVAAPVAVAAAAAPAAAAASPAT 61
298 SGKSKAKA--AAPAK-AAAAAPAKAAAPPAKTAAPAKAAAP--AKAAAPPAKAAAPPAKT 352
QY 62 AAATA-AAVSPAAGQIPAAASVSAASAAVAPSAASAAAVQVAPAPAPVAPALVVPAP 120
Db 353 AAPPAKTAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAPPAKAAAP--AKAAAP 411
QY 121 AAAQASAPQOTAPTSAPVAP 142
```



Db 412 PAKAAAPPAAKAAAPPAAKAAAP 433

RESULT 5

US-08-557-309B-54

Sequence 54, Application US/08557309B

Patent No. 5916572

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Lodes, Michael J.

APPLICANT: Houghton, Raymond L.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T

NUMBER OF SEQUENCES: 69

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/557,309B

FILING DATE: 14-NOV-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.422

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 682-6031

INFORMATION FOR SEQ ID NO: 54:

SEQUENCE CHARACTERISTICS:

LENGTH: 219 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-557-309B-54

Query Match 29.9%; Score 198.5; DB 2; Length 219;  
Best Local Similarity 45.1%; Pred. No. 1.7e-08;  
Matches 65; Conservative 4; Mismatches 68; Indels 7; Gaps 4;

QY 4 KTAAVAPISVPAPVAAATAITATTITTTTAAAPVAVAA-AAAAPAAAAPSP 59  
DB 69 KKAAPSGKSAKAAAPAKAAAPAKAAAPAKAAAPAKAAAPAKAAAPAKAAAP 127  
QY 60 ATAAATA-AVSPAAAGIPIPAASVSAASAAVAPSAAPAAVAVAPAPAPVAP 118  
DB 128 KTAAPPAKTAAPPAAPAAAPAAAPAAAPAAAPAAAPAAAPAAAPAAAP 186  
QY 119 AAPAAQASAPAOPTASAPAVAP 142  
DB 187 AAPAAQASAPAAAPAAAPAAAPAAAP 210

RESULT 6

US-08-403-379A-1

Sequence 1, Application US/08403379A

Patent No. 575662

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/403,379A

FILING DATE: 14-MAR-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Makl, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 210121.406

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 682-6031

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 262 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-403-379A-1

Query Match 29.7%; Score 197; DB 1; Length 262;  
Best Local Similarity 44.3%; Pred. No. 2.6e-08;  
Matches 66; Conservative 8; Mismatches 63; Indels 12; Gaps 5;

QY 1 ESNKTAAVAPISVPAPVAA-ATAITATTITTTTAAAPVAVAAAPVAPAA 55  
DB 110 EDAAAAAAAKKAAKAAAPSGKSAKAAIAPAKAAAPAKAAAP-AKAAAPAKAAA 168  
QY 56 APSPTAAATTAASPPAAAGIPIA-ASVSAASAAVAPSAAPAAVAVAPAPVAP 113  
DB 169 APAAKAAAPAAKAAATPAAPAAAPAAAPAAAPAAAPAAAPAAAPAAAPAA 228  
QY 114 LVPVAPAAQASAPAOPTASAPAVAP 142  
DB 229 -ATAAPKA-ATAPAKAAAPAAKAAATP 253

RESULT 7

US-08-929-414-1

Sequence 1, Application US/08929414

Patent No. 5942403

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Houghton, Raymond

APPLICANT: Skeiky, Yasir A.W.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION

NUMBER OF SEQUENCES: 15

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/929,414

FILING DATE: 15-SEP-1997

CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.406C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 682-6031  
TELEFAX: (206) 682-4900  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 262 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-929-414-1

Query Match 29.7%; Score 197; DB 2; Length 262;  
Best Local Similarity 44.3%; Pred. No. 2.6e-08;  
Matches 66; Conservative 8; Mismatches 63; Indels 12; Gaps 5;

QY 1 ESNKTAAVAPISVPVAAA-----ATAATTAATTTTWWAAAPVAAAAAPAAAA 55  
DB 110 EDAAAAAAAKQRAAKAAAPSGKSAKAAIAPAKAAAAAPAKAAAP-AAAAAPAKAAA 168  
QY 56 APSPTAAATAAASVSPAAAGQIPA--AASVSAANAAPSAANAAPVAPAPAPAPA 113  
DB 169 APAKAAAAAPAKAATAPAKAAAAAPAKTAAAPAKAAAAAPAKAATAPAKAAAAAPAKA 228  
QY 114 LVPVAPAAQAASAPQOTAPTSAPAVAP 142  
DB 229 ---ATAAPAKA-ATAAPAKAAAAAPAKAATAP 253

## RESULT 8

US-08-557-309B-51  
Sequence 51, Application US/08557309B  
Patent No. 5916572

GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Houghton, Raymond L.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T  
NUMBER OF SEQUENCES: 69  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/557.309B  
FILING DATE: 14-NOV-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.422  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 682-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 263 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear

US-08-557-309B-51

Query Match 29.7%; Score 197; DB 2; Length 263;  
Best Local Similarity 44.3%; Pred. No. 2.6e-08;  
Matches 66; Conservative 8; Mismatches 63; Indels 12; Gaps 5;

QY 1 ESNKTAAVAPISVPVAAA-----ATAATTAATTTTWWAAAPVAAAAAPAAAA 55  
DB 111 EDAAAAAAAKQRAAKAAAPSGKSAKAAIAPAKAAAAAPAKAAAP-AAAAAPAKAAA 169  
QY 56 APSPTAAATAAASVSPAAAGQIPA--AASVSAANAAPSAANAAPVAPAPAPAPA 113  
DB 170 APAKAAAAAPAKAATAPAKAAAAAPAKTAAAPAKAAAAAPAKAATAPAKAAAAAPAKA 229  
QY 114 LVPVAPAAQAASAPQOTAPTSAPAVAP 142  
DB 230 ---ATAAPAKA-ATAAPAKAAAAAPAKAATAP 254

## RESULT 9

US-08-834-306-51  
Sequence 51, Application US/08834306  
Patent No. 6054135

GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Houghton, Raymond L.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/834.306  
FILING DATE: 15-APR-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.422C1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 682-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 263 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-834-306-51

Query Match 29.7%; Score 197; DB 3; Length 263;  
Best Local Similarity 44.3%; Pred. No. 2.6e-08;  
Matches 66; Conservative 8; Mismatches 63; Indels 12; Gaps 5;

QY 1 ESNKTAAVAPISVPVAAA-----ATAATTAATTTTWWAAAPVAAAAAPAAAA 55  
DB 111 EDAAAAAAAKQRAAKAAAPSGKSAKAAIAPAKAAAAAPAKAAAP-AAAAAPAKAAA 169  
QY 56 APSPTAAATAAASVSPAAAGQIPA--AASVSAANAAPSAANAAPVAPAPAPAPA 113  
DB 170 APAKAAAAAPAKAATAPAKAAAAAPAKTAAAPAKAAAAAPAKAATAPAKAAAAAPAKA 229

QY 114 LVVPAPAAQAASAPQOTQAPTSAPAVAP 142  
 DB 230 ---ATAAPAKA-ATAAPAKAAAAPAKAATAP 254

RESULT 10

US-08-993-674A-51  
 ; Sequence 51, Application US/08993674A  
 ; Patent No. 6228372

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.  
 APPLICANT: Skelky, Yasir A.W.  
 APPLICANT: Lodes, Michael J.  
 APPLICANT: Houghton, Raymond L.  
 APPLICANT: Smith, John M.  
 APPLICANT: McNeill, Patricia D.  
 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T  
 NUMBER OF SEQUENCES: 81  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: SEED and BERRY LLP  
 STREET: 6300 Columbia Center, 701 Fifth Avenue  
 CITY: Seattle  
 STATE: Washington  
 COUNTRY: USA  
 ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/993,674A  
 FILING DATE: 18-DEC-1997  
 CLASSIFICATION: 424  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Maki, David J.  
 REGISTRATION NUMBER: 31,392  
 REFERENCE/DOCKET NUMBER: 210121.422C2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900  
 TELEFAX: (206) 682-6031  
 INFORMATION FOR SEQ ID NO: 51:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 263 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 US-08-993-674A-51

Query Match 29.7%; Score 197; DB 3; Length 263;  
 Best Local Similarity 44.3%; Pred. No. 2.6e-08;  
 Matches 66; Conservative 8; Mismatches 63; Indels 12; Gaps 5;

QY 1 ESNKTAAVAPISVPVAAA-----ATAAATATATATTITTTWVAAPVAAAAAPAAAA 55  
 DB 111 EDAAAAAAAKQAAAKKAAAPSGKSAKAAIAPAKAAAAAPAKAAAP-AKAAAAAPAKAA 169  
 QY 56 APSPATTAATAAASVPAAGQIPAA--AASVASAAAAPSAAAAAAQQVAPAAAPVAPAPA 113  
 DB 170 APAKAAAAAPAKAAATAPAKAAAAAPAKTAAAPAKAAAPAKAAAPAKAAATAPAKAAAAAPAKA 229  
 QY 114 LVVPAPAAQAASAPQOTQAPTSAPAVAP 142  
 DB 230 ---ATAAPAKA-ATAAPAKAAAAPAKAATAP 254

RESULT 11

US-09-256-976-51  
 ; Sequence 51, Application US/09256976  
 ; Patent No. 6419933

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.  
 APPLICANT: Skelky, Yasir A.W.

APPLICANT: Lodes, Michael J.  
 APPLICANT: Houghton, Raymond L.  
 APPLICANT: Smith, John M.  
 APPLICANT: McNeill, Patricia D.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION  
 FILE REFERENCE: 210121.422C3  
 CURRENT APPLICATION NUMBER: US/09/256,976  
 CURRENT FILING DATE: 1999-02-24  
 NUMBER OF SEQ ID NOS: 95  
 SOFTWARE: Patent In Ver. 2.0  
 SEQ ID NO 51  
 LENGTH: 263  
 TYPE: PRT  
 ORGANISM: Trypanosoma cruzi  
 FEATURES:  
 OTHER INFORMATION: where any Xaa is an independently selected amino  
 OTHER INFORMATION: acid  
 US-09-256-976-51

Query Match 29.7%; Score 197; DB 4; Length 263;  
 Best Local Similarity 44.3%; Pred. No. 2.6e-08;  
 Matches 66; Conservative 8; Mismatches 63; Indels 12; Gaps 5;

QY 1 ESNKTAAVAPISVPVAAA-----ATAAATATATATTITTTWVAAPVAAAAAPAAAA 55  
 DB 111 EDAAAAAAAKQAAAKKAAAPSGKSAKAAIAPAKAAAAAPAKAAAP-AKAAAAAPAKAA 169  
 QY 56 APSPATTAATAAASVPAAGQIPAA--AASVASAAAAPSAAAAAAQQVAPAAAPVAPAPA 113  
 DB 170 APAKAAAAAPAKAAATAPAKAAAAAPAKTAAAPAKAAAPAKAAAPAKAAATAPAKAAAAAPAKA 229  
 QY 114 LVVPAPAAQAASAPQOTQAPTSAPAVAP 142  
 DB 230 ---ATAAPAKA-ATAAPAKAAAAPAKAATAP 254

RESULT 12

5273901-7  
 ; Patent No. 5273901  
 ; APPLICANT: JACOBSON, JAMES W.; STRAUSBERG, ROBERT L.; WILSON,  
 ; SUSAN D.; POPE, SHARON H.; STRAUSBERG, SUSAN L.; RUFF, MICHAEL D.;  
 ; AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.  
 ; TITLE OF INVENTION: GENETICALLY ENGINEERED COCCIDIOSIS  
 ; SPOOROZITE 21.5 KB ANTIGEN, AC-68  
 ; NUMBER OF SEQUENCES: 11  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/581,693  
 ; FILING DATE: 12-SEP-1990  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 215,162  
 ; FILING DATE: 05-JUL-1988  
 ; APPLICATION NUMBER: 746,520  
 ; FILING DATE: 19-JUN-1985  
 ; APPLICATION NUMBER: 627,811  
 ; FILING DATE: 05-JUL-1984  
 ; SEQ ID NO: 7;  
 ; LENGTH: 180  
 ; 5273901-7

Query Match 29.4%; Score 195; DB 6; Length 180;  
 Best Local Similarity 43.0%; Pred. No. 2.5e-08;  
 Matches 65; Conservative 8; Mismatches 66; Indels 12; Gaps 4;

QY 1 ESNKTAAVAPISVPVAAAATAAATTAATATTTTAAAPV-----AVAAAAAPAAAA 55  
 DB 27 EKEEERAAAPAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 86  
 QY 56 APSPATTAATAAASVPAAGQIPAA--AGQIPAAASVASAAAAPSA--AAAAPVAPAAAP 108  
 DB 87 APAAATTAAGAAGAAEARTETEGAGAAEAKAKATQAAATTAATTAATAAATAAATAAATAAAG 146  
 QY 109 VPAPALVVPAPAAQAASAPQOTQAPTSAPA 139

Db 147 KPGGHAASTAKAQAQEKAKAANAATAATA 177

RESULT 13

: Patent No. 5482709

Patent No. 5482709  
APPLICANT: JACOBSON, JAMES W.; STRAUSBERG, ROBERT L.; WILSON,  
SUSAN D.; POPE, SHARON C.; DANSTENBERG, SUSAN L.; RUFF, MICHAEL D.;  
AUGUSTINE, PATRICIA C.; DANKORTH, HARRY D.  
TITLE OF INVENTION: ENTERIA ANTIGENIC COMPOSITION WHICH  
ELICITS ANTIBODIES AGAINST AVIAN COCCIDIOSIS  
NUMBER OF SEQUENCES: 10

5482709-6

Query Match	Score	DB	Length
29.4%	195	6	180

Matches	65;	Conservative	8;	Mismatches	66;	Indels	12;	Gaps	4
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86 GAAA

[illegible]

**100** YBBAFVUTHTHAAOACCECEEC... : 100

Db 147 KPGHAAASTAAKAAOEKAAKAAANAATAATA 177

RESULT 14

Patent No. 5,272,001

APPLICANT: JACOBSON, JAMES W.; STRAUSSBERG, ROBERT L.; WILSON, SUSAN D.; POPE, SHARON H.; STAUSBERG, SUSAN L.; RUFF, MICHAEL D.; AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.  
TITLE OF INVENTION: GENETICALLY ENGINEERED COCCIDIOSIS SPOOROZONTS  
SPOROZONTS 21 500 AMERICAN 30 000

5273901-7

Query Match	29.4%;	Score 195;	DB 6;	Length 180;
Best Local Similarity	43.0%;	Pred. No. 2.5e-08;		
Matches 65; Conservative	8;	Mismatches 66;	Indels 12;	Gaps 4

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00

[illegible]

07 108 WPA DAIYBIBADANOCICDPOCTOPEMCAIEN 100

Db 147 KPGGHAASTAKAAOEKAKAKANAATAATA 177

## RESULT 15

• Defeat Me EA007700

APPLICANT: JACOBSON, JAMES W.; STRAUSSBERG, ROBERT L.; WILSON  
SUSAN D.; POPE, SHARON H.; STRAUSSBERG, SUSAN L.; RUFF, MICHAEL D.  
AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.  
TITLE OF INVENTION: EIMERIA ANTIGENIC COMPOSITION WHICH  
ELICITS ANTIBODIES AGAINST AVIAN COCCIDIOSIS

LENGTH: 180  
5482709-6

Query Match 29.48; Score 195; DB 6; Length 180;

Matches	65;	Conservative	8;	Mismatches	66;	Indels	12;	Gaps	4;
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QY 1 ESNKTAAVAPISVPAPVAAAATAAA-ITATAATITTTMVAAAPV----AVAAAAAPAAAA 55

27 EKEEERAAAPAAATTAATAAATAATATPAAAAAPAAAAAATGAAA 86

27 00 AF0FA1FAFAVSAFA-----AGQ1FAFAASVABSAFAVAPSAFA-AAAAVQVAPAPAP 100

THE UNIVERSITY OF CHICAGO

100  
90  
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Search completed: February 10, 2005, 10:13:22  
Job time : 7.99266 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 10, 2005, 10:01:57 ; Search time 33.0073 Seconds  
(Without alignments)  
1526.573 Million cell updates/sec

Title: US-09-332-063-2  
Perfect score: 3347  
Sequence: 1 MPRAQSSASVQVPADPFA.....KTPILIGQEPDAWVYLI 675

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues  
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PTCTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfiletest.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	275	8.2	1231	4	US-08-714-741-41 Sequence 41, Appl
2	263	7.9	8991	4	US-08-714-741-32 Sequence 32, Appl
3	252	7.5	2972	3	US-09-579-181-2 Sequence 2, Appl
4	252	7.5	3118	3	US-09-579-181-1 Sequence 1, Appl
5	250.5	7.5	399	4	US-09-252-991A-22853 Sequence 22853, A
6	249	7.4	1020	4	US-09-538-092-911 Sequence 911, App
7	246.5	7.4	2186	4	US-09-538-016-10828 Sequence 10828, A
8	245.5	7.3	2349	4	US-09-538-092-914 Sequence 914, App
9	245.5	7.1	805	3	US-09-103-429A-4 Sequence 4, Appl
10	237.5	7.1	807	4	US-09-294-663-4 Sequence 4, Appl
11	235	7.0	786	3	US-09-103-429A-3 Sequence 3, Appl
12	235	7.0	788	4	US-09-294-663-3 Sequence 3, Appl
13	234.5	7.0	1326	4	US-09-688-188B-15 Sequence 15, Appl
14	234.5	7.0	1326	4	US-09-291-417D-15 Sequence 15, Appl
15	231	6.9	316	4	US-09-252-991A-32957 Sequence 32957, A
16	229	6.8	802	4	US-09-823-240A-2 Sequence 2, Appl
17	226.5	6.8	2482	1	US-08-328-254-6 Sequence 6, Appl
18	226.5	6.8	3210	4	US-09-538-092-1154 Sequence 1154, Ap
19	225.5	6.7	756	4	US-08-353-137-184 Sequence 184, App
20	225	6.7	3248	1	US-08-353-700-1 Sequence 1, Appl
21	225	6.7	3248	5	PCT-US95-16216-1 Sequence 1, Appl
22	223.5	6.7	1079	4	US-09-489-039A-7502 Sequence 7502, Ap
23	221	6.6	1070	4	US-09-902-540-13861 Sequence 13861, A
24	216	6.5	442	3	US-08-834-306-52 Sequence 52, Appl
25	216	6.5	442	3	US-08-993-674A-52 Sequence 52, Appl
26	216	6.5	442	4	US-09-256-976-52 Sequence 52, Appl
27	216	6.5	1444	4	US-09-902-540-16727 Sequence 16727, A

28	216	6.5	1976	4	US-09-538-092-1078 Sequence 1078, Ap
29	213.5	6.4	1935	4	US-09-538-092-916 Sequence 916, App
30	213.5	6.4	1944	4	US-09-949-016-10929 Sequence 10929, A
31	213	6.4	262	1	US-08-403-379A-1 Sequence 1, Appl
32	213	6.4	262	2	US-08-929-414-1 Sequence 51, Appl
33	213	6.4	263	2	US-08-557-309B-51 Sequence 51, Appl
34	213	6.4	263	3	US-08-834-306-51 Sequence 51, Appl
35	213	6.4	263	3	US-08-993-674A-51 Sequence 51, Appl
36	213	6.4	263	4	US-09-256-976-51 Sequence 51, Appl
37	213	6.4	1780	4	US-09-949-016-6899 Sequence 6899, Ap
38	213	6.4	1786	4	US-09-949-016-7880 Sequence 7880, Ap
39	213	6.4	1972	4	US-08-875-435B-3 Sequence 3, Appl
40	212.5	6.3	191	4	US-09-270-767-35622 Sequence 35622, A
41	212.5	6.3	191	4	US-09-270-767-50839 Sequence 50839, A
42	212.5	6.3	1274	3	US-09-095-443-2 Sequence 2, Appl
43	210.5	6.3	1075	4	US-09-252-991A-18387 Sequence 18387, A
44	210.5	6.3	1942	4	US-09-949-016-8135 Sequence 8135, Ap
45	209.5	6.3	1315	3	US-08-899-595-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1  
US-08-714-741-41  
Sequence 41, Application US/08714741  
Patent No. 6500613  
GENERAL INFORMATION:  
APPLICANT: Biles, David E.  
APPLICANT: McDaniel, Larry S.  
APPLICANT: Swiatlo, Edwin  
APPLICANT: Yother, Janet  
APPLICANT: Crain, Marilyn J.  
APPLICANT: Hollingshead, Susan  
APPLICANT: Tarr, Rebecca  
APPLICANT: Brooks-Walter, Alexis  
TITLE OF INVENTION: PNEUMOCOCCAL GENES, PORTIONS THEREOF,  
TITLE OF INVENTION: EXPRESSION PRODUCTS THEREFROM, AND USES OF SUCH GENES,  
TITLE OF INVENTION: PORTIONS AND PRODUCTS  
NUMBER OF SEQUENCES: 47  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Curtiss, Morris & Safford, P.C.  
STREET: 530 Fifth Avenue  
CITY: New York  
STATE: New York  
COUNTRY: U.S.  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/714, 741  
FILING DATE: 16-SEP-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Frommer Esq., William S.  
REGISTRATION NUMBER: 25,506  
REFERENCE/DOCKET NUMBER: 454312-2460  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 840-3333  
TELEFAX: (212) 840-0712  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1231 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: amino acid  
US-08-714-741-41  
Query Match 8.2% Score 275; DB 4; Length 1231;

Best Local Similarity 22.3%; Pred. No. 6, 2e-10;  
Matches 144; Conservative 94; Mismatches 237; Indels 172; Gaps 24

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0Y 82 KAMENKLE---GEIRRMHDFNRDLRELETANQOLAKKEVGSBDTKTISOLFARKES 138
Db 291 KQKEKVESKGAETRLKTKTRPKKAEDEPEBQALATK-KKSEBAQKAPELTKLEEA 349
0Y 139 QREKELAEFLATARSTNEDQRHRTIETRDQLSNAQKVYLEELKKQVYD-----K 193
Db 350 KRAESESSEKAAAKQKVDAAEYALBAK---IALEBEYVRLKEKELKE-----IDBAKAK 402
0Y 194 VEKMOQALVOLQAAACEKE-----QLEHRTLRTERLESLRLOQ-----RQNGCOP 240
Db 403 LBEAEKKATAEKQKVDAAEYVAPOAKIAELBNQH-RLEQBLKEIDSDSDYKEGIRAP 461
0Y 241 TVVSEYNAALMELLREKEERILALEADMTKWE-----OKYLEENMRHFLDAATVA 294
Db 462 LOSKIDTKKAKLSKLEELSPKIDELDAEIAKLEFVQJSESDYAKEGP-----508
0Y 295 AQBDTVISHSPTSYDTLAEALIQKEEESTIMANKRCIDMEGRITLHAQITEKOMTK 354
Db 509 -----RAPQSKIDAKKAKLSKEE-----LSQKIDELDAEIAKLEIDQK 548
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Db 549 DABGNNNVAYFREGI-----EKTTAKKAELEAEADLK-----583
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Db 584 -----KAUDEPETPAPAPOK---AAEENNNVED---YKEGELK-----616
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Db 617 -----TIAAKKAELEKTEADLK-----AVNEPEKPAAPAPAPAP---APEKPAKAPAP 661
0Y 535 AGQITPAASVASAANAAPASAAAAAQAQVAPADAPVPAPALVVPVAPAAAQAQAPAQOTA 594
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1      MEDIUM TYPE: Floppy disk
2      COMPUTER: IBM PC compatible
3      OPERATING SYSTEM: PC-DOS/MS-DOS
4      SOFTWARE: PatentIn Release #1.0, Version #1.30
5      CURRENT APPLICATION DATA:
6      APPLICATION NUMBER: US/08/714,741
7      FILING DATE: 16-SEP-1996
8      CLASSIFICATION: 435
9      ATTORNEY/AGENT INFORMATION:
10     NAME: Frommer Esq., William S.
11     REGISTRATION NUMBER: 25,506
12     REFERENCE/DOCKET NUMBER: 454331-2460
13     TELECOMMUNICATION INFORMATION:
14     TELEPHONE: (212) 840-3333
15     TELEFAX: (212) 840-0712
16     INFORMATION FOR SEQ ID NO: 32:
17     SEQUENCE CHARACTERISTICS:
18     LENGTH: 8991 amino acids
19     TYPE: amino acid
20     STRANDEDNESS: single
21     TOPOLOGY: linear
22     MOLECULE TYPE: amino acid
23     US-08-714-741-32

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Db 5939 LEVQLDAEGNNVNAEYFKEGLEKTTAKKAELEKADLKKVNDDETPAPAPAPAP 5998  
Qy 561 QVAPAPAPVPAAPALVVPAPAPAAQASAPQOTAPTSAPAVAPPTPAPVAVQAEVPA 620  
Db 5999 APTEAP 6058  
Qy 621 -SPATGCPHR 630  
Db 6059 PAPAPAPKPEK 6069

RESULT 3  
US-09-579-181-2  
Sequence 2, Application US/09579181

Patent No. 6365372  
GENERAL INFORMATION:  
APPLICANT: Yaciuk, Peter  
APPLICANT: Chirivla, John  
TITLE OF INVENTION: SNF2 Related CBP Activator Protein (SRCAP)  
FILE REFERENCE: 16153-4247  
CURRENT APPLICATION NUMBER: US/09/579,181  
CURRENT FILING DATE: 2000-05-25  
PRIOR APPLICATION NUMBER: 60/136,620  
PRIOR FILING DATE: 1999-05-27  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 2972  
TYPE: PRT  
ORGANISM: Human  
US-09-579-181-2

Query Match 7.5%; Score 252; DB 3; Length 2972;  
Best Local Similarity 30.5%; Pred. No. 6.3e-08;  
Matches 98; Conservative 34; Mismatches 103; Indels 86; Gaps 15;

Qy 430 STSPVPPTPLLSAHSKTSRDCSTQTERGTESNKA-AVAPISVP----- 475  
Db 1153 SSPMPINSSPLASPVSSSTVSPSSSLPISVPTTLPAAPAPLTPISAPLTVASAGPA 1212  
Qy 476 -----APVAAA-----TAAAT--ATAATTTTVAAPVAVAV--- 507  
Db 1213 LLTSVTPPLAPVPAAPGPPSLQPSGASPSASALTGLATAPSSSQTPGHPLLATPS 1272  
Qy 508 -----AAAAAATAAATTAATAAASVPAAGQIPAAASVASAAVAPSAATAAV 560  
Db 1273 SHVPGINSTVAPACSPVLVPASALA-----SPFPAAPVAPAPQ-ASLLAPASSASQALAT 1326  
Qy 561 QVAP-AAP-----APVPAPALVVP-----APAAQASAPQOTAPTSAP-----AV 601  
Db 1327 PLAPMAAPQOTAILAPSPAPPLAPPLVLAAPSGAAVLAASSQTPVVMAPSSPTGTSLSA 1386  
Qy 602 APTPAPTP--TPAVAQAEVAPSPATGPGPHRLSIPSLTGNP--DKTDGPFVFSHTLERKT 657  
Db 1387 SPVPAPTPVLAAPSSQTMPLA-PVPSPLPSPASTQTLLAPALAPLATLGGSSPSQTLISGT 1445  
Qy 658 -----PIQILGQEPDAEMV 671  
Db 1446 GNPQGPPTQTLSLTPASSLV 1466

RESULT 4  
US-09-579-181-1  
Sequence 1, Application US/09579181  
Patent No. 6365372  
GENERAL INFORMATION:  
APPLICANT: Chirivla, John  
APPLICANT: Yaciuk, Peter

TITLE OF INVENTION: SNF2 Related CBP Activator Protein (SRCAP)  
FILE REFERENCE: 16153-4247  
CURRENT APPLICATION NUMBER: US/09/579,181  
CURRENT FILING DATE: 2000-05-25  
PRIOR APPLICATION NUMBER: 60/136,620  
PRIOR FILING DATE: 1999-05-27  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 3118  
TYPE: PRT  
ORGANISM: Human  
US-09-579-181-1

Query Match 7.5%; Score 252; DB 3; Length 3118;  
Best Local Similarity 30.5%; Pred. No. 6.7e-08;  
Matches 98; Conservative 34; Mismatches 103; Indels 86; Gaps 15;

Qy 430 STSPVPPTPLLSAHSKTSRDCSTQTERGTESNKA-AVAPISVP----- 475  
Db 1299 SSPMPINSSPLASPVSSSTVSPSSSLPISVPTTLPAAPAPLTPISAPLTVASAGPA 1358  
Qy 476 -----APVAAA-----TAAAT--ATAATTTTVAAPVAVAV--- 507  
Db 1359 LLTSVTPPLAPVPAAPGPPSLQPSGASPSASALTGLATAPSSSQTPGHPLLATPS 1418  
Qy 508 -----AAAAAATAAATTAATAAASVPAAGQIPAAASVASAAVAPSAATAAV 560  
Db 1419 SHVPGINSTVAPACSPVLVPASALA-----SPFPAAPVAPAPQ-ASLLAPASSASQALAT 1472  
Qy 561 QVAP-AAP-----APVPAPALVVP-----APAAQASAPQOTAPTSAP-----AV 601  
Db 1473 PLAPMAAPQOTAILAPSPAPPLAPPLVLAAPSGAAVLAASSQTPVVMAPSSPTGTSLSA 1532  
Qy 602 APTPAPTP--TPAVAQAEVAPSPATGPGPHRLSIPSLTGNP--DKTDGPFVFSHTLERKT 657  
Db 1533 SPVPAPTPVLAAPSSQTMPLA-PVPSPLPSPASTQTLLAPALAPLATLGGSSPSQTLISGT 1591  
Qy 658 -----PIQILGQEPDAEMV 671  
Db 1592 GNPQGPPTQTLSLTPASSLV 1612

RESULT 5  
US-09-252-991A-22853  
Sequence 22853, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 22853  
LENGTH: 399  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-22853

Query Match 7.5%; Score 250.5; DB 4; Length 399;  
Best Local Similarity 25.4%; Pred. No. 6.3e-09;  
Matches 107; Conservative 42; Mismatches 170; Indels 103; Gaps 13;

Qy 212 BQLEHRLTRLELESURIQOQNCQPTNVSEYNAALMELLREKEERILAEADMTK 271  
Db 63 QQLSHSL-----VEHLBGACK-----QALVDSKELAKLEKOROK 97

[illegible]

```

RESULT 6
US-09-538-092-911
; Sequence 911, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Glot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CurateSeqFormatter Version 0.9
; SEQ ID NO 911
; LENGTH: 1020
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number P12036
; US-09-538-092-911

```

Query Match 7.4%; Score 249; DB 4; Length 1020;  
Best Local Similarity 20.9%; Pred. No. 2.6e-08;  
Matches 150; Conservative 121; Mismatches 299; Indels 148; Gaps 27.

[illegible]

```

Db      257 AE-TRDAKCDVTSALREIRAOLEGHAVOSTLOOSEEMFRALDRLSAAKVNTDMKRSQ 315
OY      241 TNVSEYVAAAAMELLEKEKEEILALEA-----DMTKWEOKYLEBNWRHPALDAAATVAA 295
        ::::: ::::: ::::: ::::: :::::
Db      316 BEITEYR-----RQLOARTTELEALTKSTDSLEROSLELD--RHQADIASVQEAI 364
OY      296 QORDTVSHSPNNTSYTALAEARIQOEBEETIMANKRCIDME----- 336
        ::::: ::::: ::::: ::::: :::::
Db      365 QQ-----LDAELNRKWMMAAQLR-----EYODLLNFKALDIEIAAYKRLGECBICIGCP 417
OY      337 -----GRITLFLAQI-IEKDAMIYULOORSRKPSTEOULSCWRPAKSLMSISNAG 386
        ::::: ::::: ::::: ::::: :::::
Db      418 IPRSLPBGLPKPIPSVSTHIKVKSEKIKV- EKEKETVIVE----- 459
OY      387 SGLLSHSSTLTGSPIMEEKRDDKWSKSLGILLGQDYR-----AEVSPSPSPVPBPSTPLL 442
        ::::: ::::: ::::: ::::: :::::
Db      460 ---QTEBTQYTEVTEEBEEKEAKEBEKGE--EGGEEBEAEGBEETKSPPAEASPEK 514
OY      443 SAHSKTGSRDCSQTQRTGRTESNKTAAVAPISVPAPVAAAATAITATITTTVAAA 502
        ::::: ::::: ::::: ::::: :::::
Db      515 EAKSPVKEAKSPVAEAKSPKEKEAKSPAEVSPPEKASPAKEEKSPPEKSPKEKEAKS 574
OY      503 PVAVAA---AAAPAAAAAPSPATAATATAAVSPA-AAQOI-PAAASVSAAAVAPSAAAA 558
        ::::: ::::: ::::: ::::: :::::
Db      575 PAEYKSPKEAKSPAKEAKSPAEAKSPPEKASPVKEAKSPAEAK-----SPVKEAKSPA 630
OY      559 AVQVAPAAPAPVPAPALVPVPA--PAAQAQAPAOQTAPTSAPAVAPTPAPPTPAVQA 616
        ::::: ::::: ::::: ::::: :::::
Db      631 EVKSPKEAKSPTEBEAKSPKEAKSPKEKEAKSPPEKASPVYAEAKSPPEKASPVYAEAKS 690
OY      617 -EVPASG-----ATGPPPHRLSIPSLTICMPDXTDGPV-FHSNTLER-KTPQILIGQEPD 667
        ::::: ::::: ::::: ::::: :::::
Db      691 PEKAKSPVKEEAKSPPEKASPVYEAKEKSPPEKASPVYEAKEKSPPEKASPVYEAKEKSP 748

```

```

RESULT 7
US-09-949-016-10828
; Sequence 10828, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMOPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DIRECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10828
; LENGTH: 2186
; TYPE: PR1
; ORGANISM: Human
US-09-949-016-10828

```

Query Match 7.4%; Score 246.5; DB 4; Length 2186;  
Best Local Similarity 20.3%; Pred. No. 9.9e-08;  
Matches 153; Conservative 128; Mismatches 273; Indels 201; Gaps 31;

QY	24	RAOQVVELSPENNRRLRELEGCEKV----	ARLQKVTEIGORVEAEVNLKSSK----	76
Db	1060	RYRQVVELLEBELQJDSLNAEBEKVOYVAKTMAQHEBLKKTETPM-NVMEETVYKMLRE		1118
QY	77	-REALAKMR-----NKLEGEIRRMHDFNDLER--LITANTQLAKEYE-----		119
Db	1119	EKERLEQDLOQMAKVRKLEJLDIIPLEBANNLESEKSMLOAKKLLLEEDVYKWARNOH		1178



QY 120 -----GSEDTRKITSQIFANKKESQREKE---KLEALATARSTNEQRRHIEIRDQ 168  
 DB 1179 LVSGQKDPDTEERYKLISEKRVHTKRIQQLTEELGRKABIAISNA----- 1224  
 QY 169 ALSNAQKVVKLBEELKKQVYVDKVK-MQOALVOLQAACEKREOLEHRLRLELE 227  
 DB 1225 SLTNNQMLISLKEKDLNKVTEKETIQKIDAKIIDQEKVKITTVK-KIGRRYKTYE 1283  
 QY 228 SLRIQ-----QROGNCOPTNVS-----EYNAALMELLRE 257  
 DB 1284 ELKAQDQKWMETSAQSSGDHQHVSVOEMQELKELTNOAETKSLSQVENLQKTLSE 1343  
 QY 258 KE-----BRILAEADMTKWEQKYLEBNVMRHFPALDAATAVAARD-TTVISHSPNTS 309  
 DB 1344 KETEARMLQEQTVOLQSELRLROD-LQDRTOEQLRQOITEKEKTRRAIVAASKIA 1402  
 QY 310 YDTALERIOKEEELIMAN-----KRCIDM-----EGRIKTLHQIIEKDMIK 354  
 DB 1403 HLAGVKQOLTKENELKORNGALDQKDELDRITALKSQYEGRISRLERLREHQR--R 1460  
 QY 355 VLQQR-----SRPEKTEQLSCMRPAKSLMSISNAGSLSHSITLTSPIMEKRD 408  
 DB 1461 HLEQRDEPQPSNKVPEQORQI-----TLKTTPA----- 1489  
 QY 409 KSMKSGILGIDYRAEVYVSTSPVPTPLSAHSKTGSRDCSTQTERGTSNKTA 468  
 DB 1490 ---SGERGIASTSD---PPTANIKP--TPVSTPSKV---TAAMAGNKSTPRAS 1533  
 QY 469 VAPISVPAAVAAATAATTAATITTTWAAAPVAVAAAPAAAPAAAPAAATAATA 527  
 DB 1534 IRPWATPATVTPPT---TPTATVMTPTVOESQAMQSEGPVHVPVFGSTSGSVST 1589  
 QY 528 AAVSPAAAGQIPAAASVSAASAAVAPSAASAAAVOVAPAPAPVAPAPALVPAPAPAAQAS 587  
 DB 1590 PNVQPSISQPI-----LTVOQOTQATAFVQ---PTQOSHPIQEPANQELSSNIV 1635  
 QY 588 APAQT---QAPTSAPAVAPTPAPPTPAV-----QAQVPAAPATGPGHR 630  
 DB 1636 EVVQSSPVERSTSTAVGTVSATPSSSLPKRTREEEDSTIEASDQVSDTVEMPLPK 1695  
 QY 631 LSIPSLCNPDKDGPVFNHNTLERKTPIQILQGE 665  
 DB 1696 LK---SVTPVGTEEEVAAEESTDGEVETQVYNOD 1726

## RESULT 8

US-09-538-092-914  
 ; Sequence 914, Application US/09538092  
 ; Patent No. 6753314  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Glot, Loic  
 ; APPLICANT: Manfield, Traci A.  
 ; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same  
 ; FILE REFERENCE: 1596-542  
 ; CURRENT APPLICATION NUMBER: US/09/538,092  
 ; CURRENT FILING DATE: 2000-03-29  
 ; PRIOR APPLICATION NUMBER: 60/127,352  
 ; PRIOR FILING DATE: 1999-04-01  
 ; PRIOR APPLICATION NUMBER: 60/178,965  
 ; PRIOR FILING DATE: 2000-02-01  
 ; NUMBER OF SEQ ID NOS: 1387  
 ; SOFTWARE: CuratSeqFormatter Version 0.9  
 ; SEQ ID NO 914  
 ; LENGTH: 2349  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (0)...(0)  
 ; OTHER INFORMATION: Polypeptide Accession Number P12270  
 US-09-538-092-914

Query Match

7.3%; Score 245.5; DB 4; Length 2349;

Best Local Similarity 20.3%; Pred. No. 1,3e-07;  
 Matches 153; Conservative 127; Mismatches 274; Indels 201; Gaps 31;  
 QY 24 RAQWELLISDENRNLQLEEGCYEV---ARLQKETEIRORSEAYENLVKSSK---- 76  
 DB 1223 RYRQVLELLELOELEDLSNAERKQVYATKMAQHELMKTEITM-NVMTNKLRE 1281  
 QY 77 -REALKAMR-----NKLEGEIRRMHDFNRDRER--LETANKOLEKEYE----- 119  
 DB 1282 EKERLEODLQOMQARKLELDILPLQENAAELSEKSGMLQAEKLLBEDVKKWAKANO 1341  
 QY 120 -----GSEDTRKITSQIFANKKESQREKE---KLEALATARSTNEQRRHIEIRDQ 168  
 DB 1342 LVSGQKDPDTEERYKLISEKRVHTKRIQQLTEELGRKABIAISNA----- 1387  
 QY 169 ALSNAQKVVKLBEELKKQVYVDKVK-MQOALVOLQAACEKREOLEHRLRLELE 227  
 DB 1388 SLTNNQMLISLKEKDLNKVTEKETIQKIDAKIIDQEKVKITTVK-KIGRRYKTYE 1446  
 QY 228 SLRIQ-----QROGNCOPTNVS-----EYNAALMELLRE 257  
 DB 1447 ELKAQDQKWMETSAQSSGDHQHVSVOEMQELKELTNOAETKSLSQVENLQKTLSE 1506  
 QY 258 KE-----BRILAEADMTKWEQKYLEBNVMRHFPALDAATAVAARD-TTVISHSPNTS 309  
 DB 1507 KETEARMLQEQTVOLQSELRLROD-LQDRTOEQLRQOITEKEKTRRAIVAASKIA 1565  
 QY 310 YDTALERIOKEEELIMAN-----KRCIDM-----EGRIKTLHQIIEKDMIK 354  
 DB 1566 HLAGVKQOLTKENELKORNGALDQKDELDRITALKSQYEGRISRLERLREHQR--R 1623  
 QY 355 VLQQR-----SRPEKTEQLSCMRPAKSLMSISNAGSLSHSITLTSPIMEKRD 408  
 DB 1624 HLEQRDEPQPSNKVPEQORQI-----TLKTTPA----- 1652  
 QY 409 KSMKSGILGIDYRAEVYVSTSPVPTPLSAHSKTGSRDCSTQTERGTSNKTA 468  
 DB 1653 ---SGERGIASTSD---PPTANIKP--TPVSTPSKV---TAAMAGNKSTPRAS 1696  
 QY 469 VAPISVPAAVAAATAATTAATITTTWAAAPVAVAAAPAAAPAAAPAAATAATA 527  
 DB 1697 IRPWATPATVTPPT---TPTATVMTPTVOESQAMQSEGPVHVPVFGSTSGSVST 1752  
 QY 528 AAVSPAAAGQIPAAASVSAASAAVAPSAASAAAVOVAPAPAPVAPAPALVPAPAPAAQAS 587  
 DB 1753 PNVQPSISQPI-----LTVOQOTQATAFVQ---PTQOSHPIQEPANQELSSNIV 1798  
 QY 588 APAQT---QAPTSAPAVAPTPAPPTPAV-----QAQVPAAPATGPGHR 630  
 DB 1799 EVVQSSPVERSTSTAVGTVSATPSSSLPKRTREEEDSTIEASDQVSDTVEMPLPK 1858  
 QY 631 LSIPSLCNPDKDGPVFNHNTLERKTPIQILQGE 665  
 DB 1859 LK---SVTPVGTEEEVAAEESTDGEVETQVYNOD 1889

## RESULT 9

US-09-103-429A-4  
 ; Sequence 4, Application US/09103429A  
 ; Patent No. 6187558  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Granados, Robert R  
 ; APPLICANT: Wang, Ping  
 ; TITLE OF INVENTION: A No. 6187558el Invertebrate Intestinal Mucin  
 ; TITLE OF INVENTION: CDNA and Related Products and Methods  
 ; NUMBER OF SEQUENCES: 4  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Brown, Pinnisi & Michaels, P.C.  
 ; STREET: 118 No. 6187558th Tioaga  
 ; CITY: Ithaca  
 ; STATE: NY  
 ; COUNTRY: USA  
 ; ZIP: 14850

Query Match	7.1%	Score 237.5;	DB 3;	Length 805;
Best Local Similarity	28.9%	Pred No. 1.1e-07;		
Matches	90;	Conservative	21;	Mismatches 107;
			Indels	93;
			Gaps	13

  

QY	427	YVSTP	--SPVPESTP	-----	LLSASKYGRDC	-----	STOT	457
		:	:	:	:	:	:	
DB	404	YCPTEPIEWEPL	PNCCPADFSIDHLPHESDCGOYLQCHGQTIRAPCGNHFSPARQS					463
		:	:	:	:	:	:	
QY	458	-----	ERGTESNKTA	AVAPISVP	AVAAATTAATTAAT	-----	TTMVAA	502
		:	:	:	:	:	:	
DB	464	CESPVTAGCQV	PECDSDNCGTSTA	PTAFTA	PTAFTA	PTAFTA	PTAFTVVP	523
		:	:	:	:	:	:	
QY	503	PVA	AAA--AAP	AAAAA	PSPTAA	--ATAA	VS	546
		:	:	:	:	:	:	
DB	524	FVPEPTTA	PTPAFTA	PTAFTA	PTAFTTA	RESPTTV	VEPTAA	580
		:	:	:	:	:	:	
QY	547	AAA	AVPSAAAAA	VOV	PAAPAP	-----	VPAP	588
		:	:	:	:	:	:	
DB	581	APTA	PTPAFTA	PTAFTA	PTAVPEIPTV	SPPTA	PTTA	640
		:	:	:	:	:	:	
QY	589	PAQC	QAP	PSAA	VA	VP	TPA	636
		:	:	:	:	:	:	
DB	641	PAP	TTYTA	PTAFTA	PTTA	PAPNTTV	PTTA	700
		:	:	:	:	:	:	
QY	637	TCN	PKXTD	GPV	647			
		:	:	:	:			
DB	701	TPED	DDID	PP	711			

  

RESULT 10
US-09-294-663-4
Sequence 4: Application US/09294663
Patent No. 6765127
GENERAL INFORMATION:
APPLICANT: Granados, Robert R
APPLICANT: Wang, Ping
TITLE OF INVENTION: A No. 6765127el Invertebrate Intestinal Mucin
TITLE OF INVENTION: cDNA and Related Products and Methods
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Brown, Pimisi & Michels, P.C.
STREET: 118 Bro. 6765127th Tloga Street
CITY: Ithaca

[illegible]

TITLE OF INVENTION: cDNA and Related Products and Methods  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Brown, Pimisi & Michaels, P.C.  
STREET: 118 No. 6187558th Tioga  
CITY: Ithaca  
STATE: NY  
COUNTRY: USA  
ZIP: 14850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/103,429A  
FILING DATE: 24-JUN-1998  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Michaels, Christopher A  
REGISTRATION NUMBER: 34,390  
REFERENCE/DOCKET NUMBER: BTI-39  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (607) 256-2000  
TELEFAX: (607) 256-3628  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 786 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Trichoplusia ni  
TISSUE TYPE: peritrophic membrane  
US-09-103-429A-3

Query Match 7.0%; Score 235; DB 3; Length 786;  
Best Local Similarity 30.0%; Pred. No. 1.6e-07;  
Matches 90; Conservative 20; Mismatches 100; Indels 90; Gaps 14;  
QY 427 YVPSTP---SPVPSTP-----LSAHSKTSGRDC-----STQT 457  
DB 404 YCPTPEIEMEBLPNGCPADFSIDHLLPHESDCGYLCVHGQTIARPCGNLHFSPATQS 463  
QY 458 -----ERGTESNKTAAVAPISVPAPVAAAATAATTATATIT---TTMVAAA 502  
DB 464 CESPTAGCQVFECDSDQCTSTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAA 523  
QY 503 PVAVAAA---AAPAAAAAASPATAA---ATAAASPAAAGQIPAAA-----SVAS 546  
DB 524 PVPPTTALPTAPPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAA 580  
QY 547 AAAVAASAAAAAAGVAPAAPAP-----VPAP-ALVPVAPAAAAQASA 588  
DB 581 APTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAA 640  
QY 589 PAQOAPTSAPAVAPPTAPPTAPPTAPPAVQA-EVPASPATGPGHRLSIPSLTCNPKDTPGV 647  
DB 641 PAPTNTTVTPPTAAPTAAP---PTVAHAAPNTTAAAPT---TTSAPATTPEDDDIDPPL 692

RESULT 12  
US-09-294-663-3  
; Sequence 3, Application US/09294663  
; Patent No. 6765127  
; GENERAL INFORMATION:  
; APPLICANT: Granados, Robert R  
; APPLICANT: Wang, Ping  
; TITLE OF INVENTION: A No. 6765127el Invertebrate Intestinal Mucin  
; TITLE OF INVENTION: cDNA and Related Products and Methods

NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Brown, Pimisi & Michaels, P.C.  
STREET: 118 No. 6765127th Tioga Street  
CITY: Ithaca  
STATE: NY  
COUNTRY: USA  
ZIP: 14850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/294,663  
FILING DATE: 19-APR-1999  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/103,429  
FILING DATE: 24-JUN-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Michaels, Christopher A  
REGISTRATION NUMBER: 34,390  
REFERENCE/DOCKET NUMBER: BTI-39-CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (607) 256-2000  
TELEFAX: (607) 256-3628  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 788 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Trichoplusia ni  
TISSUE TYPE: peritrophic membrane  
US-09-294-663-3

Query Match 7.0%; Score 235; DB 4; Length 788;  
Best Local Similarity 30.0%; Pred. No. 1.6e-07;  
Matches 90; Conservative 20; Mismatches 100; Indels 90; Gaps 14;  
QY 427 YVPSTP---SPVPSTP-----LSAHSKTSGRDC-----STQT 457  
DB 406 YCPTPEIEMEBLPNGCPADFSIDHLLPHESDCGYLCVHGQTIARPCGNLHFSPATQS 465  
QY 458 -----ERGTESNKTAAVAPISVPAPVAAAATAATTATATIT---TTMVAAA 502  
DB 466 CESPTAGCQVFECDSDQCTSTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAA 525  
QY 503 PVAVAAA---AAPAAAAAASPATAA---ATAAASPAAAGQIPAAA-----SVAS 546  
DB 526 PVPPTTALPTAPPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAA 582  
QY 547 AAAVAASAAAAAAGVAPAAPAP-----VPAP-ALVPVAPAAAAQASA 588  
DB 583 APTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAAPTAA 642  
QY 589 PAQOAPTSAPAVAPPTAPPTAPPTAPPAVQA-EVPASPATGPGHRLSIPSLTCNPKDTPGV 647  
DB 643 PAPTNTTVTPPTAAPTAAP---PTVAHAAPNTTAAAPT---TTSAPATTPEDDDIDPPL 694

RESULT 13  
US-09-688-188B-15  
; Sequence 15, Application US/09688188B  
; Patent No. 6656716  
; GENERAL INFORMATION:  
; APPLICANT: PLOWMAN, GREGORY  
; APPLICANT: MARTINEZ, RICARDO

```

; APPLICANT: WHYTE, DAVID
; TITLE OF INVENTION: STE20-RELATED PROTEIN KINASES
; FILE REFERENCE: 038602/0328
; CURRENT APPLICATION NUMBER: US/09/688,1888
; CURRENT FILING DATE: 2000-10-16
; PRIOR APPLICATION NUMBER: 09/291,417
; PRIOR FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: 60/081,784
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 1326
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-688-1888-15

Query Match
Best Local Similarity 7.0%; Score 234.5; DB 4; Length 1326;
Matches 129; Conservative 99; Mismatches 237; Indels 129; Gaps 24;

QY 68 ENLVKSSKR-EALKEAMRNKLEGEIRRMDFNRDLRELETANKQLAKEVEGSEDTK 126
DB 247 EQLKFPFIKDPTERRQVRIQDKHD-----RSKKRGEKETETEYEGSSE--- 294
QY 127 TISQLFANKKESQREKELAEIATARSTNEDQRRHIEIRDQALSNAAQAVVLEELK 186
DB 295 -----EDSHGEGEPSSIMNVPGESTLRREFLRLOQENKNSSEA--LKQOQOQ 343
QY 187 KQVYDVKEKMOQALVQLAACERKQLEHRLTRLERELESRIQORQNCQPTVSEY 246
DB 344 QQ-QRDPBAHKLHLHQRRIEOKERRRVEEQRRERQKLOEKE---QQRLEED- 398
QY 247 NAAALMELLREKEERILAEADMTKWEOKYLEENVMHFDLDAATVAARDTVTISHP 306
DB 399 -----MQALRREERERQA-----EREQYIRHRLLEE-----QRLLEI----- 431
QY 307 NTSYDTLAEARIQKEEELIMANKCLDMGRITKTLHAQIIEKDAMIKVLQORSRKEPSK 366
DB 432 -----LQOQLDQALILEYKRLKOLEBOROSERLQROLQOHAVYKSLQOQOQOQ 484
QY 367 TEOLSCMRPAKSLMSISNAGSLSHSSTLTGSPIMEEKDDKSWKSGIILLGDYRAE 426
DB 485 KQOQOQOQLPG-DKRPVLYHGRGMNPAADKPAAREVEERTMKNQONSPLAKSKPGSTGE 543
QY 427 YVPESTP-SVPPESTPLSAHSKTSRDCSTQTERGTSNKTAAPVAPISVPAPVAAAATA 484
DB 544 --PRIPQASPGPG-PL-----SOTPPMQRPVEBOEGHKSIVAHVPLK---PYAAPVR 593
QY 485 AAITATATITTTTWWAAPVAVAAAAAPAAAPSPATAATAAASVSPAAAGQIPAAASV 544
DB 594 ---SGSLDDQPTRLALAF-----ASHDPDAIIPAPTA---TSARGAIVIRONS 637
QY 545 ASAAAVAPSAASAAAAVQVAPAPAPVP--APALVPVAPAAQAASAPQTOAPTSAPAVA 602
DB 638 PTSEGPSPSPAPVAPVDPNEAPPVKVPQRTSIALALNTSGAGGSRPAQ-----AVR 689
QY 603 PTPAP-----TPTPVAAQAEVPAATGCGPHRLISPLTICND 641
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RESULT 14
US-09-291-417D-15
; Sequence 15, Application US/09291417D
; Patent No. 6680170
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: MARTINEZ, RICARDO
; APPLICANT: WHYTE, DAVID
; TITLE OF INVENTION: STE20-RELATED PROTEIN KINASES
; FILE REFERENCE: 038602/0329
; CURRENT APPLICATION NUMBER: US/09/291,417D
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; CURRENT FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/081,784
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 1326
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-291-417D-15

Query Match
Best Local Similarity 7.0%; Score 234.5; DB 4; Length 1326;
Matches 129; Conservative 99; Mismatches 237; Indels 129; Gaps 24;

QY 68 ENLVKSSKR-EALKEAMRNKLEGEIRRMDFNRDLRELETANKQLAKEVEGSEDTK 126
DB 247 EQLKFPFIKDPTERRQVRIQDKHD-----RSKKRGEKETETEYEGSSE--- 294
QY 127 TISQLFANKKESQREKELAEIATARSTNEDQRRHIEIRDQALSNAAQAVVLEELK 186
DB 295 -----EDSHGEGEPSSIMNVPGESTLRREFLRLOQENKNSSEA--LKQOQOQ 343
QY 187 KQVYDVKEKMOQALVQLAACERKQLEHRLTRLERELESRIQORQNCQPTVSEY 246
DB 344 QQ-QRDPBAHKLHLHQRRIEOKERRRVEEQRRERQKLOEKE---QQRLEED- 398
QY 247 NAAALMELLREKEERILAEADMTKWEOKYLEENVMHFDLDAATVAARDTVTISHP 306
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QY 307 NTSYDTLAEARIQKEEELIMANKCLDMGRITKTLHAQIIEKDAMIKVLQORSRKEPSK 366
DB 432 -----LQOQLDQALILEYKRLKOLEBOROSERLQROLQOHAVYKSLQOQOQOQ 484
QY 367 TEOLSCMRPAKSLMSISNAGSLSHSSTLTGSPIMEEKDDKSWKSGIILLGDYRAE 426
DB 485 KQOQOQOQLPG-DKRPVLYHGRGMNPAADKPAAREVEERTMKNQONSPLAKSKPGSTGE 543
QY 427 YVPESTP-SVPPESTPLSAHSKTSRDCSTQTERGTSNKTAAPVAPISVPAPVAAAATA 484
DB 544 --PRIPQASPGPG-PL-----SOTPPMQRPVEBOEGHKSIVAHVPLK---PYAAPVR 593
QY 485 AAITATATITTTTWWAAPVAVAAAAAPAAAPSPATAATAAASVSPAAAGQIPAAASV 544
DB 594 ---SGSLDDQPTRLALAF-----ASHDPDAIIPAPTA---TSARGAIVIRONS 637
QY 545 ASAAAVAPSAASAAAAVQVAPAPAPVP--APALVPVAPAAQAASAPQTOAPTSAPAVA 602
DB 638 PTSEGPSPSPAPVAPVDPNEAPPVKVPQRTSIALALNTSGAGGSRPAQ-----AVR 689
QY 603 PTPAP-----TPTPVAAQAEVPAATGCGPHRLISPLTICND 641
DB 690 ARPRNSAMQIYLQRAERGTTPK-----PGPPAQPPG-----PNASSND 731

RESULT 15
US-09-252-991A-32957
; Sequence 32957, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196,136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32957
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 10, 2005, 10:07:37 ; Search time 146.883 Seconds  
(without alignments)  
1501.577 Million cell updates/sec

Title: US-09-332-063-2

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Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 32679119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

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- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*
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- 4: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\*
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- 18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep:\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3347	100.0	675	US-10-720-273-2	Sequence 2, Appli
2	3325	99.3	675	US-10-720-273-3	Sequence 3, Appli
3	1447	41.8	608	US-10-204-887-87	Sequence 87, Appli
4	1400	41.8	882	US-10-298-417-2	Sequence 2, Appli
5	1090.5	32.6	772	US-10-298-417-4	Sequence 4, Appli
6	1037	31.0	467	US-10-094-466-52	Sequence 52, Appli
7	663	19.8	143	US-10-720-273-4	Sequence 4, Appli
8	280.5	8.4	1259	US-10-260-715-8	Sequence 8, Appli
9	278	8.3	208	US-09-864-761-36456	Sequence 8, Appli
10	275	8.2	2701	US-10-171-311-83	Sequence 83, Appli
11	265.5	7.9	2846	US-10-184-644-169	Sequence 169, App
12	265.5	7.9	2846	US-10-184-634-169	Sequence 169, App
13	265.5	7.9	2846	US-10-063-685-37	Sequence 37, Appli

14	264.5	7.9	2773	14	US-10-184-644-149	Sequence 149, App
15	264.5	7.9	2773	14	US-10-184-634-149	Sequence 149, App
16	264.5	7.9	2773	14	US-10-063-685-33	Sequence 33, Appli
17	263.5	7.9	1965	15	US-10-369-493-3279	Sequence 3279, Ap
18	258	7.7	960	14	US-10-029-386-33686	Sequence 33686, A
19	258	7.7	1427	15	US-10-363-616-461	Sequence 461, App
20	258	7.7	4640	14	US-10-184-644-75	Sequence 75, Appli
21	258	7.7	4640	14	US-10-184-634-75	Sequence 75, Appli
22	256.5	7.7	1904	14	US-10-123-155-99	Sequence 99, Appli
23	256.5	7.7	1904	14	US-10-146-731-99	Sequence 99, Appli
24	256.5	7.7	1904	14	US-10-140-472-99	Sequence 99, Appli
25	256.5	7.7	1904	14	US-10-141-756-99	Sequence 99, Appli
26	256.5	7.7	1904	14	US-10-142-885-99	Sequence 99, Appli
27	256.5	7.7	1904	14	US-10-158-790-99	Sequence 99, Appli
28	256.5	7.7	1904	15	US-10-137-871-99	Sequence 99, Appli
29	256.5	7.7	1904	15	US-10-140-923-99	Sequence 99, Appli
30	256.5	7.7	1904	15	US-10-141-756-99	Sequence 99, Appli
31	256.5	7.7	1904	15	US-10-141-759-99	Sequence 99, Appli
32	256.5	7.7	1904	15	US-10-140-805-99	Sequence 99, Appli
33	256.5	7.7	1904	15	US-10-140-864-99	Sequence 99, Appli
34	256.5	7.7	1904	15	US-10-142-426-99	Sequence 170541, Appli
35	253	7.6	1480	16	US-10-437-963-170541	Sequence 2239, Ap
36	253	7.6	2971	14	US-10-408-765A-2239	Sequence 50, Appli
37	252	7.5	2971	14	US-10-146-473-50	Sequence 37, Appli
38	252	7.5	3501	14	US-10-123-155-37	Sequence 37, Appli
39	252	7.5	3501	14	US-10-146-731-37	Sequence 37, Appli
40	252	7.5	3501	14	US-10-140-472-37	Sequence 37, Appli
41	252	7.5	3501	14	US-10-141-761-37	Sequence 37, Appli
42	252	7.5	3501	14	US-10-142-885-37	Sequence 37, Appli
43	252	7.5	3501	14	US-10-158-790-37	Sequence 37, Appli
44	252	7.5	3501	15	US-10-137-871-37	Sequence 37, Appli
45	252	7.5	3501	15	US-10-140-923-37	Sequence 37, Appli

ALIGNMENTS

RESULT 1  
US-10-720-273-2  
; Sequence 2, Application US/10720273  
; Publication No. US20040141978A1  
; GENERAL INFORMATION:  
; APPLICANT: HOLLGREN, Lars  
; APPLICANT: TROYANOVSKY, Boris  
; TITLE OF INVENTION: ANGIOGENESIS RELATED MOLECULES  
; FILE REFERENCE: 0552-0154P  
; CURRENT APPLICATION NUMBER: US/10/720, 273  
; CURRENT FILING DATE: 2003-11-25  
; PRIOR APPLICATION NUMBER: US 09/332,063  
; PRIOR FILING DATE: 1999-06-14  
; PRIOR APPLICATION NUMBER: 60/114,386  
; PRIOR FILING DATE: 1998-12-29  
; PRIOR APPLICATION NUMBER: 60/089,266  
; PRIOR FILING DATE: 1998-06-15  
; PRIOR APPLICATION NUMBER: SE9804372-2  
; PRIOR FILING DATE: 1998-12-17  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 675  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-720-273-2  
Query Match 100.0%; Score 3347; DB 16; Length 675;  
Best Local Similarity 100.0%; Pred. No. 1.4e-169;  
Matches 675; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MPPAQPSSASYQVPADPFAIYSRAQOMVEIISDENRNLROETECYEVAALQVVEFI 60  
DB 1 MPPAQPSSASYQVPADPFAIYSRAQOMVEIISDENRNLROETECYEVAALQVVEFI 60  
QY 61 QVSEAYENLVSSSKREALKAMENKLEGEIRRHDFNRDRLERLETANKOLAEKEYEG 120

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Db 61 QRVSEAYENLVKSSSKREALEKAMRNKLEGEIRRMHDPNDRRLRLETANKOLAEKVEYG 120
QY 121 SEDTRKTI SOLFAKNKSOKEKLEELATARNSTNDORRHIEIRDOALSNAQAKVYL 180
Db 121 SEDTRKTI SOLFAKNKSOKEKLEELATARNSTNDORRHIEIRDOALSNAQAKVYL 180
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Db 181 EEBELKKQVYVDKVEKQOALVQLQAAACEKREQLERHRLRLERELESRLIOQRGNCOP 240
QY 241 TNVSEYNAALMELREKEERILALEADMTKWEQKYLEENVNMFALDAAATVAAGDDTT 300
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Db 301 VISHSPNTSYDTLAEARIQKEEBEILMANRCCLDMEGRIKTLHAQIIEKDMTKVLQORS 360
QY 361 RKEPSKTEQLSCMRPAKSLMSISNAGSGLSHSSTLTGSPIMEEKDDKSMKSGILIG 420
Db 361 RKEPSKTEQLSCMRPAKSLMSISNAGSGLSHSSTLTGSPIMEEKDDKSMKSGILIG 420
QY 421 GDYRAEYVSTPSPVPSTPLSHSKTSGRDCSTYTERGTESNKTAAVAPISVPAPVAA 480
Db 421 GDYRAEYVSTPSPVPSTPLSHSKTSGRDCSTYTERGTESNKTAAVAPISVPAPVAA 480
QY 481 AATAAAITATATITTTTMMVAAPVAVAAAAAPATAATAATAAASPAAGQIPA 540
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QY 601 VAPTAPPTTPAVAAQAEVPASPATGPHRLSIPSLTCNPDKTDDGVPHSNTLEKTEPIQ 660
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QY 661 ILGOEPDAEMVEYLI 675
Db 661 ILGOEPDAEMVEYLI 675
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## RESULT 2

US-10-720-273-3

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Sequence 3, Application US/10720273
Publication No. US20040141978A1
GENERAL INFORMATION:
APPLICANT: HOLMGREN, Lars
APPLICANT: TROYANOVSKY, Boris
TITLE OF INVENTION: ANGIOGENESIS RELATED MOLECULES
FILE REFERENCE: 0552-0154P
CURRENT APPLICATION NUMBER: US/10/720,273
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US 09/332,063
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 60/114,386
PRIOR FILING DATE: 1998-12-29
PRIOR APPLICATION NUMBER: 60/089,266
PRIOR FILING DATE: 1998-06-15
PRIOR APPLICATION NUMBER: SE9804372-2
PRIOR FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 675
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: VARIANT
LOCATION: (135)..(135)
OTHER INFORMATION: Residue 135 = Asn, Ser or Asp
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FEATURE:
NAME/KEY: VARIANT
LOCATION: (148)..(150)
OTHER INFORMATION: Residues 148-150 = Glu-Leu-Ala or Thr-Thr-Pro
US-10-720-273-3
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Query Match  
Best Local Similarity 99.3%; Score 3325; DB 16; Length 675;  
Matches 671; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 121 SEDTRKTI SOLFAKNKSOKEKLEELATARNSTNDORRHIEIRDOALSNAQAKVYL 180
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QY 301 VISHSPNTSYDTLAEARIQKEEBEILMANRCCLDMEGRIKTLHAQIIEKDMTKVLQORS 360
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Db 361 RKEPSKTEQLSCMRPAKSLMSISNAGSGLSHSSTLTGSPIMEEKDDKSMKSGILIG 420
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Db 421 GDYRAEYVSTPSPVPSTPLSHSKTSGRDCSTYTERGTESNKTAAVAPISVPAPVAA 480
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Db 481 AATAAAITATATITTTTMMVAAPVAVAAAAAPATAATAATAAASPAAGQIPA 540
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Db 661 ILGOEPDAEMVEYLI 675
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## RESULT 3

US-10-204-887-87

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Sequence 87, Application US/10204887
Publication No. US20030124569A1
GENERAL INFORMATION:
APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: PANZER, Scott R.
APPLICANT: SPIRO, Peter A.
APPLICANT: BANVILLE, Steven C.
APPLICANT: SHAH, Purvi
APPLICANT: CHALUP, Michael S.
APPLICANT: CHANG, Simon C.
APPLICANT: CHEN, Alice
APPLICANT: D'SA, Steven A.
```



```
APPLICANT: AMSHEY, Stefan
APPLICANT: DAHL, Christopher R.
APPLICANT: DAM, Tam C.
APPLICANT: DANIELS, Susan E.
APPLICANT: DUFOUR, Gerard E.
APPLICANT: FLORES, Vincent
APPLICANT: FONG, Willy T.
APPLICANT: GREENMALT, Lila B.
APPLICANT: HILLMAN, Jennifer L.
APPLICANT: JONES, Ailsa L.
APPLICANT: LIU, Tommy F.
APPLICANT: ROSEBERRY, Ann M.
APPLICANT: ROSEN, Bruce H.
APPLICANT: RUSSO, Frank D.
APPLICANT: STOCKREHER, Theresa K.
APPLICANT: DAFEO, Abel
APPLICANT: WRIGHT, Rachel J.
APPLICANT: YAP, Pierre E.
APPLICANT: YU, Jimmy Y.
APPLICANT: BRADLEY, Diana L.
APPLICANT: BRATCHER, Shawn R.
APPLICANT: CHEN, Wensheng
APPLICANT: COHEN, Howard J.
APPLICANT: HODGSON, David M.
APPLICANT: LINCOLN, Stephen E.
TITLE OF INVENTION: SECRETORY MOLECULES
FILE REFERENCE: PT-1134 PCT
CURRENT APPLICATION NUMBER: US/10/204,987
PRIOR FILING DATE: 2002-08-21
PRIOR APPLICATION NUMBER: 60/185,215; 60/185,216; 60/205,232; 60/205,323; 60/205,287;
60/205,324; 60/205,286
PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-05-16; 2000-05-17; 2000-05-17;
2000-05-17; 2000-05-17
NUMBER OF SEQ ID NOS: 159
SOFTWARE: PERL Program
SEQ ID NO 87
LENGTH: 608
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030124569A1 L1:212029.1.orf2:2000FEB01
FEATURE:
NAME/KEY: unsure
LOCATION: 18, 388
OTHER INFORMATION: unknown or other
US-10-204-987-87

Query Match 43.2%; Score 1447; DB 14; Length 608;
Best Local Similarity 62.1%; Pred. No. 7,6e-69;
Matches 293; Conservative 79; Mismatches 84; Indels 16; Gaps 6;

QY 2 PRAOSSASYOPVPPDPFAIVSRAOQWVILSDENRNRLROELGEGYKVAALQKYTEIO 61
DB PPPPAASSQQLGDPDAFIVERAOQWVILTEENRVLHQLGQYTDNADKLHKEKEIQ 129
QY 62 RVSAEYENLVKSSSKREALKEMRNKLGEIRRMHDFNRDLRERLETANKOLAKEYEGS 121
DB RISEAYESLVKSTTKRESLDKAMRNKLGEIRRLHDFNRDLRLETANROSSREYEGH 189
QY 122 EPTRTITSQLPAKNKESQREKLELAELATASSTNEDORRHIEIRDOALSNAQAVKLE 181
DB ED-KAABGHVYASQNKKEFLKEKEKLEWELAAVITASSEDHRRHIEILDQALSNQAVIKLE 248
QY 182 EELKKROYVVDVVEKQOALVOLQAACEKREOLEHRLTRLERLESJLRIOOROGCQPT 241
DB EELREQAAVEVEKQOALVOLQAAQCEKREOLEHRLTRLERLESJLRIOOROGCQPT 308
QY 242 NVSEYNAALMELREKEERILALEADMTKWEQKYLEENVNMFALDAATAVAQRTTV 301
DB NMPEYNAPALBLEVNEKERILALEADMTKWEQKYLEESTIRHFANNAATAAERDTTI 368
QY 302 IHSPTSY-DTALFARIQKEEBEILMANRCLDMEGRITKTLHAQIIEKDAMIKVLQNS 360
```

```
DB INSRNGSYGESSLEAHIMWEEBEVQANRRCODMETYIKTLAKIIEKAMIKVLQNS 428
QY 361 RKRPSKTEQSCMRPAKSLMSISNAGSGLSHSSTLTGSPIMEKRDKSMKSLGILLG 420
DB RKGAGTKDS-SSLRPAVSPIA-AATGHSRQTSLSQAEKKEKTKWSIGILLG 486
QY 421 GDYRAEYVPSPPSPPL-----SAHSKTSRSDCSTQTERGTE 462
DB 487 KEHHEH--ASAPLLPPTGALSIASTTAASGHAATKSDSTQTERGTE 536

RESULT 4
US-10-298-417-2
Sequence 2, Application US/10298417
Publication No. US20030124603A1
GENERAL INFORMATION:
APPLICANT: Miyuki Nishimura
APPLICANT: Mayumi Asano
APPLICANT: Yutchi Ono
APPLICANT: Koji Morimoto
APPLICANT: Masakazu Takeuchi
APPLICANT: Yoko Inoue
APPLICANT: Yoshio Imai
APPLICANT: Yoshimi Takai
TITLE OF INVENTION: Exocrine gland tight junction-constituting protein JEAP family
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/298,417
CURRENT FILING DATE: 2003-01-22
PRIOR APPLICATION NUMBER: JP 2001-352241
PRIOR FILING DATE: 2001-11-16
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 882
TYPE: PRT
ORGANISM: Mus musculus
US-10-298-417-2
```

Query Match 41.8%; Score 1400; DB 14; Length 882;  
Best Local Similarity 58.2%; Pred. No. 3,6e-66;  
Matches 299; Conservative 80; Mismatches 103; Indels 32; Gaps 11;

```
QY 1 MPRAOP-SSASYOPVPPDP-----FAIVSRAOQWVILSDENRNRLROELGEGYKVA 51
DB LPLPLPISLASQPLPASPNQQLGDPDAFIVERAOQWVILTEENRVLHQLGQYTDNAD 392
QY 52 RLOKVEYEQVSEAYENLVKSSSKREALKEMRNKLGEIRRMHDFNRDLRERLETANK 111
DB KLHKEKELOSISEAYESLVKSTTKRESLDKAMRNKLGEIRRLHDFNRDLRLETANR 452
QY 112 QLAKEYEGSEDTRKTTISQLPFAKNKESQREKLELAELATASSTNEDORRHIEIRDOALS 171
DB QLSREYDGHED-KAABSHVYASQNKKEFLKEKEKLEWELAAVITASSEDHRRHIEILDQALS 511
QY 172 NQAQVVLLEELKKQOYVVDVVEKQOALVOLQAAQCEKREOLEHRLTRLERLESJLR 231
DB NQAQVVLLEELKKQOYVVDVVEKQOALVOLQAAQCEKREOLEHRLTRLERLESJLR 571
QY 512 NQAQVVLLEELKKQOYVVDVVEKQOALVOLQAAQCEKREOLEHRLTRLERLESJLR 571
DB NQAQVVLLEELKKQOYVVDVVEKQOALVOLQAAQCEKREOLEHRLTRLERLESJLR 571
QY 232 QOROGCQPTNVSEYNAALMELREKEERILALEADMTKWEQKYLEENVNMFALDAATA 291
DB QOKAGTGPVSLPEGNAPALMELVNEKERILALEADMTKWEQKYLEESTIRHFAMSAAA 631
QY 572 QOKAGTGPVSLPEGNAPALMELVNEKERILALEADMTKWEQKYLEESTIRHFAMSAAA 631
DB 572 QOKAGTGPVSLPEGNAPALMELVNEKERILALEADMTKWEQKYLEESTIRHFAMSAAA 631
QY 292 TVAAQRTTVIHSPTSY-DTALFARIQKEEBEILMANRCLDMEGRITKTLHAQIIEKD 350
DB AATAERDTTISNHSRNGSYGESSLEAHIMWEEBEVQANRRCODMEYTIKNLHAKIIEKD 691
QY 351 AMIKVLQORSKREPKTQOLSCMRPAKSLMSISNAGSGLSHSSTLTGSPIMEKRDK- 409
DB 692 AMIKVLQORSKREPKTQOLSCMRPAKSLMSISNAGSGLSHSSTLTGSPIMEKRDK- 409
QY 410 SWKSLGILLG-----GDYRAEYVPSPPS---PVPSPTLUSA-HSKTSRSDCSTQTERGT 461
```

Db 750 TWKSGISGFLGKEHOGQASAPLPTTPASALSLPASTTSASTHAKTGSKDSSTQTDKST 809

Qy 462 E-----SNKTAAVAPISVPAPVAAATPA 485  
 Db 810 ELFWPSMASLPSRGRSLSTAPSNSPILKHPAAKGA 843

# RESULT 5

US-10-298-417-4  
 ; Sequence 4, Application US/10298417  
 ; Publication No. US20030124603A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Miyuki Nishimura  
 ; APPLICANT: Mayumi Asano  
 ; APPLICANT: Yuichi Ono  
 ; APPLICANT: Koji Morimoto  
 ; APPLICANT: Masakazu Takeuchi  
 ; APPLICANT: Yoko Inoue  
 ; APPLICANT: Toshio Imai  
 ; APPLICANT: Yoshimi Takai  
 ; TITLE OF INVENTION: Exocrine gland tight junction-constituting protein U2AP family  
 ; FILE REFERENCE:  
 ; CURRENT APPLICATION NUMBER: US/10/298,417  
 ; CURRENT FILING DATE: 2003-01-22  
 ; PRIOR APPLICATION NUMBER: JP 2001-352241  
 ; PRIOR FILING DATE: 2001-11-16  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 4  
 ; LENGTH: 772  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-10-298-417-4

Query Match 32.6%; Score 1090.5; DB 14; Length 772;  
 Best Local Similarity 50.4%; Pred. No. 8.2e-50;  
 Matches 244; Conservative 71; Mismatches 118; Indels 51; Gaps 9;

Qy 6 PSSASYQVPADPPAIV-----SPAQOMTEILSD-----ENRNLROELGCEYKVARLQK 55  
 Db 284 PSSFGPPAVVEGPPSAQATLGSALHQAQMETVLRNARLQDRNRELQRELESTSEKARIEK 343  
 Qy 56 VETELQVSEAYENLVKSSSKREALEKAMRNKLEGEIRRMHNDRLRELEFANQOLAE 115  
 Db 344 LENEIQRSEAHESLMTKISSKREALEKTYRNKMDGEMKRLQDPNRLRELEFANQOLAE 403  
 Qy 116 KEYEGSEDTRKTIQQLFANKKESQREKEKLELAEIATARSTNEDQRRHIEIRDOALSNAQA 175  
 Db 404 KQGEAQAGSQDMVAKLLAQSYEQQCEKLEREMALLFGAIEDQRHAEILQALGNAQS 463  
 Qy 176 KVVKLBEELKKQVYVDKYEKQOALVOLQAACEKEQLEHLRTRTELEBESLRIOQO 235  
 Db 464 RAARAEBEELRKQAYVEKVERLQALGOQAACEKEQLEHLRTRTELEBESLRIOQO 523  
 Qy 236 -----GNCQPTNVSEYNAALMELREKEERILAEADTKWEQKYLEENVRHFDALDA 289  
 Db 524 TGTLAGGGSGHGSALSLRLSEQLREKEQILAEADTKWEQKYLEENVRHFDALDA 583  
 Qy 290 AATVAAGRDITVISHSPNTSYDTALBARIQKEEBEILMANRCLDWEGRITKTLHAQIIEK 349  
 Db 584 AATVAAGRDITVISHSPNTSYDTALBARIQKEEBEILMANRCLDWEGRITKTLHAQIIEK 636  
 Qy 350 DAMIKVLQORSKREKPEKTEQLSCMRPAKSLMSISNAGSLSHSITLTSPIWEKRDOK 409  
 Db 637 DAVIKVLQORSKREKPEKTEQLSCMRPAKSLMSISNAGSLSHSITLTSPIWEKRDOK 676  
 Qy 410 SKKSGILGILGGYRAEYVPS---TPSPVPSTPLLSAHSKTGRSDCSTOTERGESNKT 466  
 Db 677 GNGG---LVSSERQTDARPDGRVPAEPPATAPLPAHTKSGRSDGISTD -GPADNTS 731  
 Qy 467 AAVA 470  
 Db 732 ACIA 735

# RESULT 6

US-10-094-466-52  
 ; Sequence 52, Application US/10094466  
 ; Publication No. US20030203363A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Spytek et al.  
 ; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM  
 ; TITLE OF INVENTION: AND METHODS OF USING  
 ; FILE REFERENCE: 21402-290D  
 ; CURRENT APPLICATION NUMBER: US/10/094,466  
 ; CURRENT FILING DATE: 2002-03-07  
 ; PRIOR APPLICATION NUMBER: 60/274,281  
 ; PRIOR FILING DATE: 2001-03-08  
 ; PRIOR APPLICATION NUMBER: 60/288,148  
 ; PRIOR FILING DATE: 2001-05-02  
 ; PRIOR APPLICATION NUMBER: 60/274,849  
 ; PRIOR FILING DATE: 2001-03-09  
 ; PRIOR APPLICATION NUMBER: 60/275,235  
 ; PRIOR FILING DATE: 2001-03-12  
 ; PRIOR APPLICATION NUMBER: 60/338,375  
 ; PRIOR FILING DATE: 2001-12-04  
 ; PRIOR APPLICATION NUMBER: 60/275,579  
 ; PRIOR FILING DATE: 2001-03-13  
 ; PRIOR APPLICATION NUMBER: 60/335,302  
 ; PRIOR FILING DATE: 2001-10-31  
 ; PRIOR APPLICATION NUMBER: 60/275,601  
 ; PRIOR FILING DATE: 2001-03-13  
 ; PRIOR APPLICATION NUMBER: 60/276,000  
 ; PRIOR FILING DATE: 2001-03-14  
 ; PRIOR APPLICATION NUMBER: 60/277,338  
 ; PRIOR FILING DATE: 2001-03-20  
 ; Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 114  
 ; SOFTWARE: PatIn 2.1  
 ; SEQ ID NO 52  
 ; LENGTH: 467  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-094-466-52

Query Match 31.0%; Score 1037; DB 15; Length 467;  
 Best Local Similarity 48.4%; Pred. No. 3.1e-47;  
 Matches 233; Conservative 75; Mismatches 117; Indels 56; Gaps 9;

Qy 32 LSDENRNLROELGCEYKVARLQVETETIQVSEAYENLVKSSSKREALEKAMRNKLEGE 91  
 Db 11 LQDRNRELQRELESAEYKAGRIEKLSEIQRLSAHESLTPASSKREALEKTMNKVDSE 70  
 Qy 92 TRMRDQPNRDLRERETANKKLAKEKEVSGSDTRKTSQLFANKKESQREKEKLELAT 151  
 Db 71 MRRLQDPNDRDLRERETANKKLAKEKEVSGSDTRKTSQLFANKKESQREKEKLELAT 130  
 Qy 152 ARSTNEDQRRHIEIRDOALSNAQKVVLEBEELKKQVYVDKYEKQOALVOLQAACEKR 211  
 Db 131 LFGAIEDQRHRLLEQLLGNAGRAAABEELKKQAYVEKVERLQALGOQAACEKR 190  
 Qy 212 EQLERLRLTRLEBESLRIOQO-----GNCQPTNVSEYNAALMELREKEERILAE 266  
 Db 191 EQLERLRLTRLEBESLRIOQO-----GNCQPTNVSEYNAALMELREKEERILAE 250  
 Qy 267 ADMTKWEQKYLEENVRHFDALDAATVAAGRDITVISHSPNTSYDTALBARIQKEEBEIL 326  
 Db 251 ADMTKWEQKYLEENVRHFDALDAATVAAGRDITVISHSPNTSYDTALBARIQKEEBEIL 303  
 Qy 327 MANKRCLDWEGRITKTLHAQIIEKDMAMIKVLQORSKREKPEKTEQLSCMRPAKSLMSISNAG 386  
 Db 304 TCGHNGHQBESLTKVLHQLIEKDAVIVLQORSRDRDQKALIQGS -LRPAKSVSPVAAA 362  
 Qy 387 SGLSHSITLTSPIWEKRDOKSKWSGLGILGGDYRAEYVPS-----TPSPVPP 437

Db 363 AA-----GTGCGQ-----LSSSEKQTADAPARLTADRAPTEPVT 400  
 Qy 438 STPLLSASHTGSDCTGTERTGSKTAAPVAPISVPAP-----VAAAATTAATTTAA 492  
 Db 401 APF--AAHAKGSRDSTGTDTGPPDSTSTCTC-----PPEPDLGSSSORAASLDSVAT 453  
 Qy 493 T 493  
 Db 454 S 454

RESULT 7  
 US-10-720-273-4  
 ; Sequence 4, Application US/10720273  
 ; Publication No. US20040141978A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HOLMGREN, Lars  
 ; APPLICANT: TROYANOVSKY, Boris  
 ; TITLE OF INVENTION: ANGIOGENESIS RELATED MOLECULES  
 ; FILE REFERENCE: 0552-0134P  
 ; CURRENT APPLICATION NUMBER: US/10/720, 273  
 ; CURRENT FILING DATE: 2003-11-25  
 ; PRIOR APPLICATION NUMBER: US 09/332,063  
 ; PRIOR FILING DATE: 1999-06-14  
 ; PRIOR APPLICATION NUMBER: 60/114,386  
 ; PRIOR FILING DATE: 1998-12-29  
 ; PRIOR APPLICATION NUMBER: 60/089,266  
 ; PRIOR FILING DATE: 1998-06-15  
 ; PRIOR APPLICATION NUMBER: SE9804372-2  
 ; PRIOR FILING DATE: 1998-12-17  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 4  
 ; LENGTH: 143  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-720-273-4

Query Match 19.8%; Score 663; DB 16; Length 143;  
 Best Local Similarity 100.0%; Pred. No. 5.6e-28;  
 Matches 143; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 462 ESNKTAAPVAPISVPAPVAAAATAATTTATTTTAAAPVAAAAPAAAAPSPA 521  
 Db 1 ESNKTAAPVAPISVPAPVAAAATAATTTATTTTAAAPVAAAAPAAAAPSPA 60  
 Qy 522 TAAATTAAPVAPAAAGQIPAAASVASAAPVAPAAAPVAPAAAPVAPVAPVAP 581  
 Db 61 TAAATTAAPVAPAAAGQIPAAASVASAAPVAPAAAPVAPAAAPVAPVAPVAP 120  
 Qy 582 AAAQASAPQOTAPTSAPVAPVPT 604  
 Db 121 AAAQASAPQOTAPTSAPVAPVPT 143

RESULT 8  
 US-10-260-715-8  
 ; Sequence 8, Application US/10260715  
 ; Publication No. US20030099992A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: UCB, S.A.  
 ; APPLICANT: NOCKA, Karl  
 ; APPLICANT: LU, Sun  
 ; APPLICANT: MEDLEY, Quintus  
 ; APPLICANT: THOMAS, Daniel  
 ; TITLE OF INVENTION: Genes Associated with Mast Cell Activation  
 ; FILE REFERENCE: 053529-5006  
 ; CURRENT APPLICATION NUMBER: US/10/260,715  
 ; CURRENT FILING DATE: 2002-10-01  
 ; PRIOR APPLICATION NUMBER: 60/325,536  
 ; PRIOR FILING DATE: 2001-10-01  
 ; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 8  
 ; LENGTH: 1259  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-260-715-8

Query Match 8.4%; Score 280.5; DB 14; Length 1259;  
 Best Local Similarity 31.6%; Pred. No. 1.3e-06;  
 Matches 96; Conservative 34; Mismatches 109; Indels 65; Gaps 11;  
 Qy 386 GSGLLSHSTLTGSPIMEERDKSKGSLGILGDRYRAEYVPTSTSPVPPSTPLLSAH 445  
 Db 356 GRPLSSGQPGATGAYDAGEAGADSSRDNSSPAADUG-----PTRPP--EQAKPAAAGH 405  
 Qy 446 SKTGSRCSTGTERTGTSNKTAAVAP-----ISVPAP-----VAAAATA 484  
 Db 406 SRAPSR---GREPPRASPPAPGPGPPPEALTLPSPOPLPLEVTQDPSVGENLPAAP 462  
 Qy 485 AATPATATTTTAAAPVAAAAPAAAAPSPATTAATAAVSPAAAGQIPAAASV 544  
 Db 463 APSSASAOVLTS-----APASVLAALASSPSSAPTATSTSSPTAPAPAPTSAP 514  
 Qy 545 ASAAAAPVAPSAAPAAAVQVAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAPAP 594  
 Db 515 TSTPAPAPSPAPAAATPAPAPVPTLTPSPALTPVPTPAPAPAPAPAPAPAPAP 574  
 Qy 595 PTSAAPVAPTPA-----PTPTPAVQAQEVPA--SPATGPPPHLSPTSL--CNPD 641  
 Db 575 PTPALSPAPTPALTPAPASPALTPVPTPALSPAPTAPAPAPAPAPAPAPAPAP 634  
 Qy 642 KTDG 645  
 Db 635 PADG 638

RESULT 9  
 US-09-864-761-36456  
 ; Sequence 36456, Application US/09864761  
 ; Patent No. US20020048763A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Penn, Sharon G.  
 ; APPLICANT: Hanzel, David K.  
 ; APPLICANT: Chen, Wensheng  
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
 ; FILE REFERENCE: Aecmca-X-1  
 ; CURRENT APPLICATION NUMBER: US/09/864,761  
 ; CURRENT FILING DATE: 2001-05-23  
 ; PRIOR APPLICATION NUMBER: US 60/180,312  
 ; PRIOR FILING DATE: 2000-02-04  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: US 09/632,366  
 ; PRIOR FILING DATE: 2000-08-03  
 ; PRIOR APPLICATION NUMBER: GB 24263, 6  
 ; PRIOR FILING DATE: 2000-10-04  
 ; PRIOR APPLICATION NUMBER: US 60/236,359  
 ; PRIOR FILING DATE: 2000-09-27  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663



;; Prior Application removed - See File Wrapper or Palm  
;; NUMBER OF SEQ ID NOS: 612  
;; SEQ ID NO 169  
;; LENGTH: 2846  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-10-184-644-169

Query Match 7.9%; Score 265.5; DB 14; Length 2846;  
Best Local Similarity 42.4%; Pred. No. 2.1e-05;  
Matches 81; Conservative 11; Mismatches 84; Indels 15; Gaps 2;

QY 448 TGSRDCTGT-----ERGTESNKTAAPVAPISVPVAAAAATA-----AATATA 492  
DB 2649 TGGTCCTTTCTCCCATCTCTGTACACATTTTATAATAAGGCTTGCTTCGA 2708  
QY 493 TTTTAAVAAVAVAAAAAASPATATAATTAATVSPAAAGQIPAAASVASAAVAP 552  
DB 2709 ACTACAAAAAATAA 2768  
QY 553 SAAAAAIVVAPAAAPVAPALVVPAPAAQAAPQTAQTSAPVAPPTPTPA 612  
DB 2769 AA 2828  
QY 613 VAAQEVAPSPA 623  
DB 2829 AAAAAAAAAA 2839

RESULT 12  
US-10-184-634-169  
;; Sequence 169, Application US/10184634  
;; Publication No. US2003006864A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Chen, Jian  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Pan, James  
;; APPLICANT: Smith, Victoria  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P3430R1C217  
;; CURRENT APPLICATION NUMBER: US/10/184.634  
;; PRIOR APPLICATION REMOVED - See File Wrapper or Palm  
;; NUMBER OF SEQ ID NOS: 612  
;; SEQ ID NO 169  
;; LENGTH: 2846  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-10-184-634-169

Query Match 7.9%; Score 265.5; DB 14; Length 2846;  
Best Local Similarity 42.4%; Pred. No. 2.1e-05;  
Matches 81; Conservative 11; Mismatches 84; Indels 15; Gaps 2;  
QY 448 TGSRDCTGT-----ERGTESNKTAAPVAPISVPVAAAAATA-----AATATA 492  
DB 2649 TGGTCCTTTCTCCCATCTCTGTACACATTTTATAATAAGGCTTGCTTCGA 2708  
QY 493 TTTTAAVAAVAVAAAAAASPATATAATTAATVSPAAAGQIPAAASVASAAVAP 552  
DB 2709 ACTACAAAAAATAA 2768  
QY 553 SAAAAAIVVAPAAAPVAPALVVPAPAAQAAPQTAQTSAPVAPPTPTPA 612  
DB 2769 AA 2828

QY 613 VAAQEVAPSPA 623  
DB 2829 AAAAAAAAAA 2839

RESULT 13  
US-10-063-685-37  
;; Sequence 37, Application US/10063685  
;; Publication No. US20030180909A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baton, Dan L.  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Gerritsen, Mary E.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, Christopher J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Wood, William I.  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P3230R1C1  
;; CURRENT APPLICATION NUMBER: US/10/063.685  
;; PRIOR APPLICATION REMOVED - See File Wrapper  
;; NUMBER OF SEQ ID NOS: 170  
;; SEQ ID NO 37  
;; LENGTH: 2846  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-10-063-685-37

Query Match 7.9%; Score 265.5; DB 14; Length 2846;  
Best Local Similarity 42.4%; Pred. No. 2.1e-05;  
Matches 81; Conservative 11; Mismatches 84; Indels 15; Gaps 2;

QY 448 TGSRDCTGT-----ERGTESNKTAAPVAPISVPVAAAAATA-----AATATA 492  
DB 2649 TGGTCCTTTCTCCCATCTCTGTACACATTTTATAATAAGGCTTGCTTCGA 2708  
QY 493 TTTTAAVAAVAVAAAAAASPATATAATTAATVSPAAAGQIPAAASVASAAVAP 552  
DB 2709 ACTACAAAAAATAA 2768  
QY 553 SAAAAAIVVAPAAAPVAPALVVPAPAAQAAPQTAQTSAPVAPPTPTPA 612  
DB 2769 AA 2828  
QY 613 VAAQEVAPSPA 623  
DB 2829 AAAAAAAAAA 2839

RESULT 14  
US-10-184-644-149  
;; Sequence 149, Application US/10184644  
;; Publication No. US20030044930A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Chen, Jian  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Pan, James  
;; APPLICANT: Smith, Victoria  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
;; FILE REFERENCE: P3430R1C227

; CURRENT APPLICATION NUMBER: US/10/184,644  
 ; CURRENT FILING DATE: 2002-06-28  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 149  
 ; LENGTH: 2773  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-10-184-644-149

Query Match 7.9%; Score 264.5; DB 14; Length 2773;  
 Best Local Similarity 43.4%; Pred. No. 2.4e-05;  
 Matches 79; Conservative 11; Mismatches 85; Indels 7; Gaps 2;

QY 449 GSRDCSTOTERGTSNKTAAPVAPISVPAPVAAAATAATATATATTTTMMVAA-----AP 503  
 DB 2594 GTTTCATTTTGTCA--TGACATGTAGGAATGCTGAATTAATGTTTAGAAGATGAA 2651  
 QY 504 VAVAAAAAPAAAAAPSPATAATAAVSPAAGQIPAAASVSAVAAPSAAAAAAVQVA 563  
 DB 2652 AAATAA 2711  
 QY 564 PAAPAPVAPALVPVAPAAAQASAPAOQAPTSAPAVAPTPAPTPPAVQAQEVASPA 623  
 DB 2712 AA 2771  
 QY 624 TG 625  
 DB 2772 AG 2773

RESULT 15

US-10-184-634-149  
 ; Sequence 149; Application US/10184634  
 ; Publication No. US2003006864A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Chen, Jian  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3430R1C217  
 ; CURRENT APPLICATION NUMBER: US/10/184,634  
 ; CURRENT FILING DATE: 2002-06-28  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 149  
 ; LENGTH: 2773  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-10-184-634-149

Query Match 7.9%; Score 264.5; DB 14; Length 2773;  
 Best Local Similarity 43.4%; Pred. No. 2.4e-05;  
 Matches 79; Conservative 11; Mismatches 85; Indels 7; Gaps 2;

QY 449 GSRDCSTOTERGTSNKTAAPVAPISVPAPVAAAATAATATATATTTTMMVAA-----AP 503  
 DB 2594 GTTTCATTTTGTCA--TGACATGTAGGAATGCTGAATTAATGTTTAGAAGATGAA 2651  
 QY 504 VAVAAAAAPAAAAAPSPATAATAAVSPAAGQIPAAASVSAVAAPSAAAAAAVQVA 563  
 DB 2652 AAATAA 2711  
 QY 564 PAAPAPVAPALVPVAPAAAQASAPAOQAPTSAPAVAPTPAPTPPAVQAQEVASPA 623

DB 2712 AA 2771  
 QY 624 TG 625  
 DB 2772 AG 2773

Search completed: February 10, 2005, 10:28:06  
 Job time : 148.883 secs